Oil, Paint and Drug Reporter

The Chemical Market Authority Since 1871

Volume 153 No. 2 **January 12, 1948**

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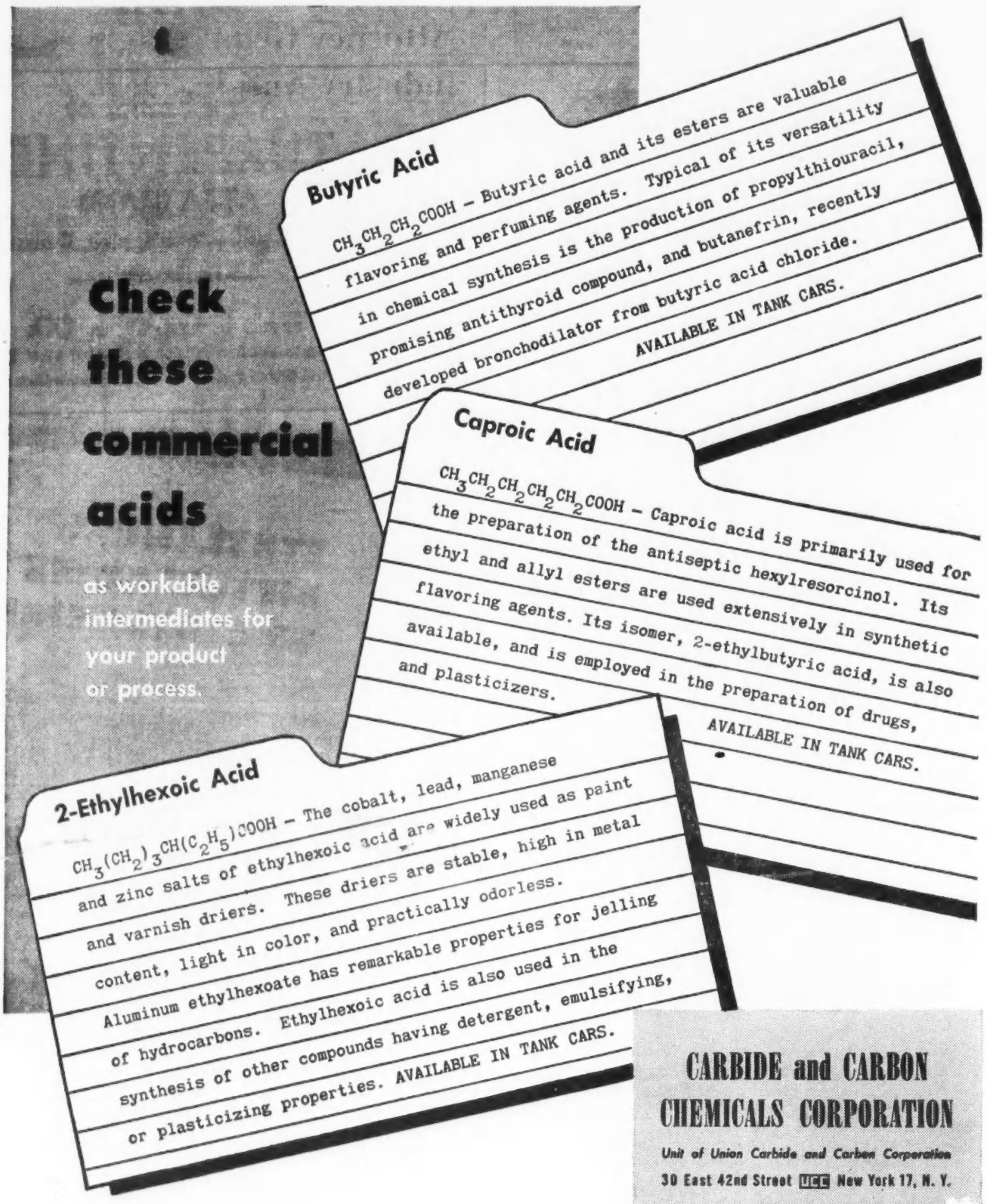
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Minerals Production In U.S. Up in 1947

OPD Washington Bureau

The total value of minerals and mineral products produced in the United States and Alaska in 1947 reached an all-time peak of $12,400,000,000, exceeding the former record of 1946 by 40 percent, Secretary of the Interior J. A. Krug announced yesterday. The 1946 figure was $8,859,000,000.

A new high in the physical volume of production also accompanied the increase in dollar value, the secretary stated. On the basis of preliminary estimates prepared by the Bureau of Mines, the total quantity of minerals produced was approximately 5 percent over the previous peak output recorded in 1944, and about 13 percent over the 1946 production.

Achievement of the 1947 record value of production resulted predominantly from higher commodity prices, according to the analysis submitted to James Boyd, bureau director, by the economics and statistics division. Approximately a third of the rise in value, however, was due specifically to increased tonnages produced—a consequence of unprecedented peacetime demands by industry and agriculture and of labor-management tranquility that permitted almost full-time operations.

Of the three major classes of mineral products—metals, fuels, and other non-metals—the greatest gain in 1947 (65 percent) was made by metals, partly as a reflection of its labor and supply difficulties in 1946. Value of the fuels increased 36 percent while more crude petroleum and natural gas was being pumped than in any other year in history.

—*Continued on page 42*

Canada Negotiates $300,000,000 Loan

OPD Washington Bureau

An agreement providing Canada with a line of credit of $300,000,000 was signed last week by the Export-Import Bank. Canada will use the funds to "continue importing essential equipment and industrial raw materials from the United States with a view to maintaining a high level of production in Canada." One-half of the fund will be spent for industrial raw materials, including $20,000,000 for chemicals, $20,000,000 for non-metallic minerals, $30,000,000 for raw cotton, $50,000,000 for coal, and $20,000,000 for other materials.

Carbon Black Plant Sold for $1,420,000

OPD Washington Bureau

War Assets Administration last week announced the sale of the government-owned carbon black plant at Seagraves, Tex., to the Columbian Carbon Company for $1,420,000.

The plant has been under lease to the Columbian company and is one of the most completely equipped carbon black projects built by the government during the war. It produced channel black for the rubber program and cost the government $2,226,179 to build. It has an appraised fair value of $1,779,679.

Price Trend Strongly Upward

Even though the depressing effects of excessive supplies were still exerted last week among botanicals and returned to essential oils, the general upward tendency of prices in the markets for chemicals, oils, and drugs got sufficiently stronger to predominate. The general average for the markets was lifted 1.2 points, but it was still 0.4 point below the comparable 1947 level. Coaltar chemicals, some other organic materials, and a variety of inorganics were helped by the fatty oils group in the price-upping.

Settling of some employment disruptions in the heavy chemical field put production a bit farther ahead. Demand has not been matched, however, in most major lines, although spot interest still showed the effects of holidays and storms. Transportation facilities are better in respect to boxcars, especially encouraging in the fertilizer field. Tankcars also are becoming slightly easier to get. Increasing shipments are generally expected through the first quarter.

The advance in domestic white arsenic was not unexpected; most production is being taken up for insecticides; glass-making supplies by way of imports are still more costly. A boost in bariums is forecast. Anhydrous ammonia was upped for export. Medicinal and other high grades of several metallic salts also were dearer.

The upward movement in coaltar chemicals comprised phenol, orthocresol, five intermediates in several groups, acetoacetanilide, and acetophenetidin. The "aceto" advance also took in ammonium, amyl, and butyl acetates. Butyl alcohol, other than Midwest, was raised. So were dry corn derivatives. Some tapioca flour was cheaper.

Oils, fats, and waxes showed a general advance in both animal and vegetable sections. Some fatty acids were carried along, and most metallic linoleates were upped. Blood, tankage, and casein were included in the advances in animal products. The predominantly downward movements in botanicals were numerically well balanced and several items—black pepper, for example—were on both sides, depending on time or source. Synthetic camphor was reduced.

OPD Price Index

The OIL, PAINT AND DRUG REPORTER'S relative record of prices for chemicals and related materials is currently as follows:—

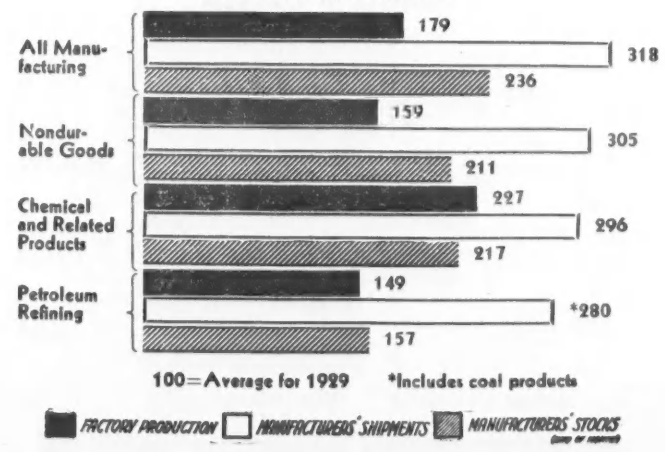
Jan. 3, 1948	Jan. 2, 1918	Jan. 9, 1947
150.6	149.4	151.0

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price inclinations in the interwar period.

OPD Index Monthly Averages

	1947	1946	1945	1941
January	150.9	135.8	133.0	107.8
February	151.9	135.4	133.2	110.3
March	151.9	135.2	132.7	111.9
April	152.3	134.9	132.2	115.5
May	115.9	135.1	132.5	118.2
June	113.9	135.4	132.5	121.9
July	112.5	137.7	133.5	125.5
August	110.4	136.6	133.9	128.2
September	111.3	137.0	134.0	130.4
October	116.1	141.1	135.5	133.2
November	119.7	149.2	134.0	135.1
December	150.4	150.2	134.8	140.3
Year's average	147.6	138.8	133.8	123.2

Business in October



Attorney General to Scrutinize Industry Anti-Inflation Pacts

OPD Washington Bureau

Jurisdiction over industry agreements to be negotiated under the anti-inflation law in the fields of fuels, foods, transportation, and industrial materials were delegated to the Departments of the Interior, Agriculture and Commerce and the Office of Defense Transportation by President Truman last week. At the same time the President assigned veto power over the agreements to the Attorney General.

Meanwhile the United States Steel Corporation was the first to ask the government that it provide written assurances that companies which enter into voluntary allocation agreements under the law will not be subject to later anti-trust prosecution. A spokesman for the Department of Justice declared that adequate assurances would be given, although the department was reported still undecided whether a formal letter would be sent to the steel company or to industry at large.

The executive order of Mr. Truman delegated to the Secretary of Agriculture authority with respect to priority, allocation, and inventory control of agricultural commodities and with respect to speculative trading on commodity exchanges. Agricultural commodities were defined to mean:—

"All commodities and products, simple, mixed, or compound, or complements to such commodities or products that are or may be eaten or drunk by human beings or animals, irrespective of other uses to which such commodities or products may be put, and at all stages of processing from the raw commodity to the product thereof in vendible form for immediate human or animal consumption, but exclusive of such commodities and products as the Secretary of Agriculture may determine. For the purpose of this order, the term 'agricultural commodities' shall also include all starches, sugars, fats and oils of animal, vegetable, or marine origin (including oil seeds and other oil bearing materials, fatty acids, soap and soap powder), cotton, tobacco, wool, hemp, flax fiber, and alcohol, and also such other commodities and products as the President may designate."

The authority delegated to the Secretary of the Interior includes priority, allocation, and inventory control of fuels which means coal, coke, petroleum and petroleum products, and natural and manufactured gas.

The director of ODT is given authority to allocate transportation facilities and equipment, while the Secretary of Commerce is given authority with respect to priority, allocation, and inventory control of "scarce commodities which basically affect the cost of living or industrial production" which are not otherwise delegated to the other agencies. The Secretary of Commerce will continue his present responsibility for the administration of export controls.

The order states that the heads of the departments are to consult with industry, business and agriculture to encourage the making of voluntary agreements, but such agreements must first be approved by the Attorney General before they become operative. The consultation may be through

—*Continued on page 82*

Urine Concentrate Import Duty 10% Ad Valorem

OPD Washington Bureau

The United States Court of Customs and Patent Appeals last week held that imported merchandise invoiced as "urine concentrate in form of R III crystals," which is known to the medical profession as "the estrogenic hormone," is properly dutiable at 10 percent ad valorem under paragraph 34 of the 1930 tariff act.

The ruling, made in an appeal by Roche-Organon, Inc., reversed classification of the Collector of Customs and the United States Customs Court, which held the merchandise to be dutiable under paragraph 5 of the Act at the reduced rate of 12½ percent provided for in the trade agreement with Argentina.

Similar merchandise had previously been involved in a question before the customs court brought by the same firm on which a ruling adverse to the importer was made on April 29, 1944. No appeal was taken from the decision in that instance, but the record of that case was made a part of the present case which therefore, in effect, became a retrial of the first case.

The importer had asked that the merchandise either be classified under paragraph 1668 and entitled to entry free of duty as a crude drug of animal origin; under paragraph 34 as a drug of animal origin advanced in value or condition, or under paragraph 1558, with duty at 10 percent, as a nonenumerated unmanufactured article.

Alcohol Plants Sale Hearings Set for Jan. 14

OPD Washington Bureau

The senate committee on agriculture announced that it will hold hearings January 14 on the plan of the War Assets Administration to sell or lease the government's two big grain alcohol plants in the Midwest. The committee has asked officials of WAA and the Department of Agriculture to testify on the terms of the proposed offerings.

Nitric Acid Transport Experiment Approved

The Interstate Commerce Commission has authorized the Leaman Transportation Corporation to engage in the experimental use of two motor vehicle cargo tanks constructed of type 347 stainless steel in the transportation of nitric acid.

The tanks are understood to be constructed in accordance with "specification MC 310, cargo tanks," except that the location of the manhole is not directly on top of the shell but is recessed to the rear and top of the tank in a manner not fully approved by the American Society of Mechanical Engineers' code, under which the tanks were manufactured. The change was made in order to provide safety in the event of overturn of the vehicle.

FTC Lists Assignments

The Federal Trade Commission announced the assignments of supervision of its bureaus and offices to the following commissioners for the calendar year 1948:—

Chairman Robert E. Freer:—executive office, bureau of trial examiners, assistant to the chairman, and special legal assistants to the commission.

Commissioner Garland S. Ferguson:—office of general counsel and bureau of litigation.

Commissioner Ewin L. Davis:—bureau of industrial economics.

Commissioner William A. Ayres:—bureau of legal investigation and bureau of medical opinions.

Commissioner Lowell B. Mason:—bureau of trade practice conferences and wool act administration and bureau of stipulations.

Boxcar Demurrage Charges Suspended in Blizzard Areas

OPD Washington Bureau

Demurrage charges on railroad freight cars provided for in Service Order 775 were suspended in the blizzard area of New York, Pennsylvania and New Jersey for a week by action of the Interstate Commerce Commission last week. The suspension began at 7 a.m. December 31 and expired at 7 a.m. January 7. The area covered by the suspension is the territory on and east of a line from Rouses Point, N. Y. to Utica, N. Y. to Wilkes-Barre, Pa., to Philadelphia and ending at Atlantic City, N. J.

Medicinals Export License Value Limits Increased

OPD Washington Bureau

The value limits of certain medicinals that may be exported under general license to group "K" and group "E" destinations was increased last week by the export supply branch of the Office of International Trade. The general license value limit for insulin was increased from $1 to $10 for both group "K" and group "E" destinations and for the following bismuth preparations it was raised from $1 to $25 for both destinations:—Bismuth subcarbonate, bismuth subgallate, bismuth subnitrate, and bismuth subsalicylate.

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CCC Fats and Oils Purchase Lagging

OPD Washington Bureau

The Department of Agriculture announced last week that 41,400,000 pounds of fats and oils remains to be purchased by the Commodity Credit Corporation against fourth quarter 1947 allocations for CCC procurement.

Officials stated that this is the entire balance under existing CCC allocations, "since quantities (approximately 7,000,000 pounds) which had not been purchased against allocations for the second and third quarters of 1947, will not be fulfilled."

The total fourth quarter 1947 allocation for CCC procurement was 120,200,000 pounds. Of this quantity, 19,400,000 pounds were transferred to commercial procurement. The remainder, totaling 100,800,000 pounds, was for CCC procurement.

As of December 31 the CCC had purchased 59,400,000 pounds against its fourth quarter allocations. These purchases (in fat content) included 23,100,000 pounds of lard, 13,200,000 pounds of shelled peanuts, 9,200,000 pounds of soybean oil, 7,600,000 pounds of linseed oil, 2,200,000 pounds of margarin, 2,000,000 pounds of coconut oil, 1,200,000 pounds of fatty acids, 600,000 pounds of fatty acids, 600,000 pounds of cottonseed oil, and 300,000 pounds of soap.

Palm Oil Importation Permitted Under WFO 63

OPD Washington Bureau

Import licenses as required under War Food Order 63 will be granted for the importation of palm oil from the Belgian Congo and the Netherland East Indies, the Department of Agriculture announced January 5.

The policy of the department as announced permits the granting of licenses for the importation of palm oil within the allocations for 1948. The licenses for importation for domestic consumption will be granted only to those who prior to the publication of this announcement have imported palm oil from the Belgian Congo or the Netherlands East Indies. The maximum amount of each license for importation is 2,500 metric tons from the Belgian Congo and 500 metric tons from the Netherlands East Indies.

To be eligible for a subsequent license, the importer must show proof satisfactory to the Administrator of WFO 63 that the previously-licensed amount had been purchased for importation for domestic consumption in the United States. Furthermore, licenses will be granted to private importers for the transshipment of palm oil through the United States to countries having IEFC allocations upon receipt of requests from the governments concerned. Licenses for importation for both domestic consumption and for transshipment will be valid for ninety days after date of issuance.

Applications for import licenses should be filed with the Administrator of WFO 63, fats and oils branch, Department of Agriculture, Washington 25, D. C. The application should be accompanied with a statement or other evidence of eligibility for a license showing that the applicant had previously imported palm oil from the Belgian Congo or from the Netherlands East Indies.

Lead Pigments 'Monopoly' Case Summation to Start

Presentation of evidence in the proceeding of the Federal Trade Commission against the five leading producers of lead pigments, charging them with conspiracy to promote and maintain monopolistic practices in the sale of lead pigments, was completed last week by the commission counsel with a request that the companies be held in violation of the Clayton act as charged in the complaint.

Defense attorneys will begin their summation of the evidence today in an attempt to show that the government has not proved its case. The companies charged with engaging in monopolistic practices are the National Lead Company, Sherwin-Williams Company, Glidden Company, Eagle-Picher Company, and Anaconda Copper Company.

Joseph Wright, counsel for the commission, urged trial examiner John W. Norwood to recommend to the commission that cease and desist orders be issued against the companies prohibiting them from granting quantity discounts in the selling of white lead, white lead in oil, red lead and litharge. Also, that they be prohibited from selling under a zone price system which provides for the same delivered prices to customers regardless of differences in shipping costs.

The examiner was also urged to recommend that National Lead Company be prohibited from purchasing any interest in any competitor "in view of the company's dominant position in the industry."

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Parsons Succeeds Peller In Tariff Commission Post

OPD Washington Bureau

Martin Peller, commodity specialist in the chemicals division of the United States Tariff Commission, has left government service to become associated with the John Hopkins physics laboratory at Silver Springs, Md. He has been succeeded by Henry O. Parsons, who formerly was in charge of the work in the chemical field of the Bureau of Census, including paints and fertilizers, and later was engaged in chemical market research for the Bonneville Power Administration.

Potash Inst. Names Mann Vice-President

Dr. H. B. Mann, formerly southern manager for the American Potash Institute, has been appointed vice-president of the organization. Dr. Mann, well-known throughout agricultural circles because of his association with experiment stations and scientific organizations, has assumed his new duties at the Institute's headquarters in Washington, D. C.

Butyl Alcohols Output Doubled by Celanese

The chemical division of Celanese Corporation of America, New York, has increased production of "Celanese solvent 201," a combination of butyl alcohols, now in use as a general solvent. According to the company, the division has more than doubled production of its butyl alcohols—now offered at 13 cents per pound in tankcars, f.o.b. Bishop, Tex.

Archer-Daniels-Midland Elects Platt Vice-President

Walter F. Platt, jr., formerly manager of eastern sales for Archer-Daniels-Midland Company, Minneapolis, has been named vice-president in charge of eastern sales, with headquarters in Philadelphia. He was appointed manager of the eastern sales division in 1941 and since that time has supervised the sales products in the Philadelphia, New York and Boston areas.

Corn Products Refining Advances Brady, Gamble

Corn Products Refining Company, New York, has elected William T. Brady a director and W. H. Gamble a vice-president. Mr. Brady is also a vice-president. He has been with the company since 1919, and has served as general manager of its plants in Edgewater, N. J., Kansas City, Mo., and Argo, Ill. He was transferred to New York in 1945, and has been serving as assistant to the president.

Mr. Gamble joined the company in 1910 and was appointed its general sales manager last year. He is also president and a director of the Corn Products Sales Company.

ACS Elects Directors

Dr. Emil Ott, director of research for the Hercules Powder Company, Wilmington, Del., has been elected to the board of directors of the American Chemical Society for a three-year term. He succeeds Dr. Edward R. Weidlein, director of the Mellon Institute for Industrial Research, Pittsburgh, as regional director for the Third District, embracing the states of Pennsylvania, Ohio, and Delaware.

Dr. Ernest H. Volwiler, executive vice-president of the Abbott Laboratories, North Chicago, Ill., was reelected for a four-year term as a director-at-large of the society, and Dr. Charles A. Kraus, professor emeritus of Brown University and a past president of the society, was renamed regional director of the First District, which consists of New England and Canada.

Virden Heads 'Little WPB'

John C. Virden, of Cleveland, Ohio, has been appointed special assistant to Secretary of Commerce W. Averell Harriman to direct the department's industrial cooperation program under the Taft anti-inflation act. Mr. Virden is chairman of the board of John C. Virden & Co., makers of lamps and electrical equipment. He will head up what is to be known as the "little WPB" of the department whose functions will be to encourage the making of voluntary agreements in industry to allocate scarce materials and products to the most essential uses. He was regional director of the WPB in Cleveland from 1942 to 1945.

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Fertilizer Plants Asked For Production Details

OPD Washington Bureau

Operators of the four former Army ordnance plants leased or sold by the government to private industry in 1946 have been asked by the fertilizer subcommittee of the house committee on agriculture for a complete report on their operations as part of the committee's investigation of the fertilizer situation.

The committee requested the operators to report the current production of anhydrous ammonia, how this production compares with capacity of the plant, how much of the production is going into manufacture of fertilizer, and how much to other uses.

The committee has also asked the War Department for more information on the details of its proposed leasing of the Cactus ordnance works to private interests in order to determine whether the leasing of the plant will ensure a greater supply of nitrogen being available to agriculture.

The four privately operated plants, subject of the inquiry, are the Jayhawk, leased to Spencer Chemical Company in April, 1946; Ozark, leased to Lion Oil Company in May, 1946; Lake Charles, leased to Mathieson Alkali Works in September, 1946, and Dixie, sold to Commercial Solvents Corporation in July, 1946.

The committee hopes to submit its report to Congress on the fertilizer situation around February 1 as result of its investigations which began last month.

Dr. S.E. Sheppard Retires From Eastman Kodak

Dr. Samuel E. Sheppard, assistant director of research for the Eastman Kodak Company, Rochester, N. Y., retired January 1 after thirty-five years with the company's research laboratories. Dr. Sheppard came to this country from London in 1913, when the Kodak research laboratories were organized.

In 1920 he was made director of the department of physical, inorganic and analytical chemistry, and a year later was placed in charge of the development of X-ray screens. He served as acting director of the laboratories in 1922 and 1923, and in 1924 was appointed assistant director of research.

Dr. Sheppard's work in photography ranged from research on gelatin and sensitizing dyes to studies of the size of grains in photographic emulsions. In other fields, he was responsible for the discovery of a way to use powdered coal as fuel for submarines during the first World war, and the development of a method of electroplating rubber coatings on non-organic materials.

Chemical Equipment Offered as Surplus

A sale of chemical and miscellaneous equipment, which cost the government $204,350, has been announced by Kenneth J. Munro, acting director of the Chicago WAA region. The goods will be sold by sealed bid which must be filed no later than January 28, at 11:00 a.m., at Navy pier, Chicago 90, Ill. The sale is open to priority and non-priority buyers.

Specimen samples may be inspected beginning January 14, at the Chicago Customer Service Center, Navy pier, or at WAA warehouse four, East Chicago, Ind., and warehouses five and six, Hammond, Ind., any weekday, except Saturday and holidays from 9:00 a.m. to 4:00 p.m.

Items in this sale include precipitators, dust-collector units, a kerosene still, DeVilbiss pressure tanks, spray machines, centrifuges, oil extractors, purifiers, exhaust booths, and a chip wringer.

Waste Oil for Sale

An estimated lot of 99,000 gallons of waste oil, inflammable, containing varying percentages of gasoline, kerosene, thinners, and the like, accumulating between January 16 and April 15, is offered for sale by the Naval Air Station, Pensacola, Fla. Bids will be taken until 10:00 a.m. CST, January 13, by the supply officer at the station, on sales catalog No. B-53-48. The telephone is Pensacola 2171.

Foreign Market Lists

Lists of foreign outlets for chemicals and related materials and consumers goods recently compiled by the Commercial Intelligence Division of the United States Department of Commerce, include the following, which are available from the division at $1 for a list for any one country:—

Glass and glassware manufacturers, Portugal.
Naval stores importers, dealers, producers, exporters, Republic of Philippines.
Petroleum industry, Trinidad.

U.S. Revises Views On Nitrogen Outlook

OPD Washington Bureau

United States consumption of fertilizer nitrogen will have to be limited to its present level or only slightly above in order for this country to continue the export of nitrogen to Western Europe, according to a special report of the Department of State on fertilizer requirements of the Marshall plan made public last week.

The report disclosed another revision in the 1947-48 import requirement of nitrogen for the participating countries and placed the requirement at 423,000 metric tons, as against 440,000 metric tons in an earlier revised report and 290,000 metric tons in the original report of the Paris conference (Committee for European Economic Cooperation).

This latest correction by CEEC includes the addition of 101,000 tons of nitrogen in the requirement of France; a reduction in the requirement for the French zone of Germany to 49,200 tons, which results in an export supply of 4,800 tons rather than an import requirement of 14,400 tons; an increase in the production of Austria from 24,000 tons to 41,000 tons; and an allowance for exportation of about 66,000 tons from the participating countries to non-participating countries.

For the later years, the report gives corrected requirement figures of the CEEC of 297,000 tons for 1948-49 and 149,000 tons for 1949-1950. The supply estimated to be available for 1948-49 will be about 100,000 tons short of the requirement. For 1949-50 the available supply will be sufficient to meet the full requirement and in 1950-51 there will be an exportable surplus.

"In the opinion of the United States agencies," the report states, "the availability of nitrogen from world supplies will not make possible the filling of the estimated requirements during the first two years of the program. Every ton of nitrogen in the world pool for 1947-48 has been allocated. There are no visible reserves, and producing countries are not likely to make large additional tonnages available during the year.

"A small increase in imports from the Western Hemisphere other than the United States is provided for in 1948-49. The United States commercial production is expected to increase some in 1948-49, in which case this country's imports from Canada and Chile may be reduced and greater shipments can be made from Canada and Chile to the participating countries.

"Total 1948-49 exports from the Western Hemisphere are assumed at 180,000 tons, which would leave a nitrogen deficit for that year of around 100,000 tons. For 1949-50 the full CEEC requirements can be met with imports reduced to 114,000 tons, the reduction being divided about equally between the United States and other Western Hemisphere countries. The exports to participating countries from the Western Hemisphere are 40,000 tons in 1950-51, all to come from Chile."

California Standard Elects T.S. Petersen President

Standard Oil Company of California has elected T. S. Petersen president to succeed R. G. Follis, who was made vice-chairman of the board of directors. Mr. Petersen was formerly vice-president and a director, and Mr. Follis had been president since 1945.

Mr. Petersen joined the company in 1922 and became manager of the employee relations and personnel department in 1938. He was subsequently made general manager of sales, and was elected to the board in 1942.

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating—not by telephone, please—with the OPD office:—

Almond oil, Zurich, Switzerland (BA-2).
Bakelite, Zurich, Switzerland (BA-2).
Caustic soda, Bombay, India (BA-9).
Chemicals, Bombay, India (BA-1).
Dyes, Bombay, India (BA-1); Cambodia, French Indochina (BA-8).
Edible oils, Saint-Denis, Reunion (BA-7).
Glycerin, Zurich, Switzerland (BA-2).
Lard, Saint-Denis, Reunion (BA-7).
Lithol red, Monterrey, Mexico (BA-5).
Lithol toners, Montreal, Canada (BA-3).
Lithopone, Monterrey, Mexico (BA-5); Bombay, India (BA-9).
Metanitroparatoluidine, Montreal, Canada (BA-3).
Paint, Cambodia, French Indochina (BA-8).
Pharmaceutical products, Bombay, India (BA-1).
Polystyrene molding compounds, Paris, France (BA-4).
Soda ash, Bombay, India (BA-9).
Synthetic resins, Zurich, Switzerland (BA-2).
Titanium dioxide, Monterrey, Mexico (BA-5).
Toluidine toner, Montreal, Canada (BA-3).
Vegetable fats and oils, Sopot, Poland (BA-6).

USI Vice-President

William P. Marsh jr. has been elected executive vice-president of U. S. Industrial Chemicals, Inc. Mr. Marsh joined USI ten years ago, has been a vice-president since 1943 and a director since April of last year.

Du Pont Names Wilson Explosives Division Head

E. I. duPont de Nemours & Co., Wilmington, has appointed Fred R. Wilson manager of the explosives division of its explosives department, and has named T. R. Carlson to succeed him as director of production of the division. Mr. Wilson succeeds Philip J. Kimball, who has been appointed assistant general manager of the explosives department.

Mr. Wilson started with the du Pont organization as a chemist in its Eastern laboratory, Gibbstown, N. J., in 1924, and spent the next several years there and in supervisory work in powder and acid production in Gibbstown and Birmingham, Ala. In 1933 he was made special assistant in the explosives department in Wilmington.

Mr. Carlson joined the company in 1928 as a chemist, and served in supervisory and managerial positions at various plants and laboratories before being named a division production manager in 1942.

Deep Rock Oil Corp, Elects Garbade President

Deep Rock Oil Corporation has elected William H. Garbade president, to succeed C. Kenneth Baxter, who assumed the duties of president following the death of Henry N. Greis last year. Mr. Baxter will continue as chairman of the board. Mr. Garbade was formerly assistant treasurer of the Shell Oil Company.

U. S. Protests New Cuban Labor Decree Shackling American Firms

OPD Washington Bureau

A protest is being filed by the Department of State with the Cuban government against a presidential decree that would perpetuate the employment of Cuban nationals by foreign firms, except for discharge for just cause. The department's attention was called to the decree by the American Drug Manufacturers Association and a wire was immediately dispatched to the American Embassy in Havana to protest the action.

The decree was issued by the Cuban President December 18 and became effective immediately. A law along the same lines previously had been considered and rejected in the Cuban House of Representatives and the issuance of the decree came as a complete surprise.

In a letter to the State department the Drug Industry Export Committee urged that the department seek its revocation entirely, or at least a modification of its terms so that it is limited to what is understood in the United States to be "an employee." The decree places a sales agent of a foreign firm in Cuba in a position analogous to that of an employee, which is an erroneous assumption of a true employee-employer relationship, it was contended.

Most of the agents of foreign firms in Cuba act for more than one firm and, as a general rule, the firm has no control over the agent's organization which performs the services, the committee pointed out. Also, most companies have cancellation clauses in their contracts with their Cuban agents, it was added, which had been mutually agreed upon and these clauses would be nullified by the decree.

Under its terms, any foreign firm using the services of a representative, agent, or distributor in Cuba will not be permitted to cancel or revoke its agreements with such representatives for the purpose of transferring its representation to another firm without showing "just cause" to the Cuban Ministry of Labor. These restrictions apply even in cases where foreign firms desire to establish branches in Cuba or direct agencies to handle business now being handled by other agents, commission merchants, and the like.

In showing "just cause" for making a change in its Cuban representation, a foreign firm must prove, in proceedings before the Ministry of Labor, one of the following conditions:—An infringement or violation of the provisions of the agreement under the terms of which the agency or representation has been conferred; fraud or abuse of confidence in the matters entrusted to the agent or distributor; lack of fitness or negligence on the part of the agent or distributor; continued decrease in the sales or distribution of the articles, for reasons that may be imputed to the agent or distributor; divulgence of secrets of the industry or trade in question; any act imputable to the agent or distributor which is detrimental to the effective introduction or distribution of the products handled by the agency or trust.

The proceedings will be handled in accord with the rules established in Article 70 of Decree No. 798 of April 13, 1938 which established rules governing the termination of employment as between employers and employees in Cuba. In establishing a "just cause" all evidence produced within Cuba or abroad would be admitted.

Foreign concerns which violate the decree would not be permitted to operate in Cuba or establish agencies.

M.M.&R. Honors Fischer For Forty Years Service

William F. Fischer, sales manager for Magnus, Mabee & Reynard, Inc., essential oils and aromatic chemicals, New York, was tendered a testimonial banquet in the Manhattan Club on January 5, in observance of his fortieth year of association with the company. Principal guest speaker at the affair was Arthur Wallander, police commissioner for New York City.

William F. Fischer

Mr. Fischer started with the firm as office boy and progressed rapidly to the laboratory, the bookkeeping department and, finally, to the sales staff. He was covering the Canadian territory when he was called back to New York in 1929 to become general sales manager.

The banquet marked the end of a three-day sales conference, held at the Warwick hotel, which was attended by more than seventy-five sales representatives, executives and technical personnel of the company.

At the conference, Percy C. Magnus, president, predicted for 1948 the biggest sales volume in essential oil history and foresaw a definite rise in oil prices. In support of this view, George H. McGlynn, treasurer, revealed an upswing in raw material costs, especially in foreign oils.

Pennsalt Names McWhirter Fluorine Products Head

Pennsylvania Salt Manufacturing Company has placed James McWhirter in charge of fluorine product process development and manufacture. Mr. McWhirter has been superintendent of the company's Natrona, Pa., plant for the past two years, and his duties there have been assumed by Gail E. Barr, who has been named acting superintendent.

In his new capacity, Mr. McWhirter will direct all phases of the company's activities in fluorine product manufacturing temporarily from the Easton, Pa., plant. He joined the company as a chemical engineer in 1945 and was named superintendent of the Natrona plant last year. He had previously been associated with the General Chemical Company.

Diamond Match Elects Duffey Vice-President

The Diamond Match Company, New York, has elected Joseph E. Duffey vice-president and has placed him in charge of the timber and lumber operations of the company and given him general charge of production of all other departments and divisions.

Mr. Duffey has been president of Industrial Management Engineers, Inc., New York, and Management Engineers, Ltd., Montreal, since 1932. He is also president of Consolidated Building Materials, Inc., which operates lumber yards in Vermont and Connecticut.

Washington Talks It Over

The OPD Observer

Aside from the recommendations on the Marshall plan and anti-inflation, the President's message to the opening of Congress was little more than a restating of the points raised in his messages of a year ago and the year before that. To observers the message did not appear to be as momentous as usually demands the personal appearance of the President before Congress.

Recommendations of the President include such matters as universal military training, conservation of natural resources, federal aid to health and education, extension of the social security act, increase of the minimum wage, elimination of racial discrimination, maintenance of tax revenues, antitrust enforcement, extension of crop insurance, and hopeful establishment of world peace. These are all old stories to the legislators, and doubtlessly will be viewed in the same light as in past years.

Wood-Hydrolysis Plant Unsold

The Department of Agriculture has had to abandon its efforts to find someone willing and able (financially) to take over and operate the government's wood-hydrolysis plant at Springfield, Ore. The plant was building during the war to make alcohol from woodwaste on a commercial scale but was shut down early in September when the Willamette Valley Wood Chemical Company couldn't get operations up to a paying capacity without more funds from RFC—which the agency refused to supply.

The plant has now been turned over to the War Assets Administration for disposal, and this agency is now having its real value appraised. It cost the government $3,100,000 to build, but whether that amount can be realized from its sale is questionable in view of an estimated need of upward of $250,000 of capital investment to get rid of the engineering bugs that showed up during the brief period it was in operation.

World Chemical Data Published

World Chemical Developments, 1940-46, covering chemical developments in most of the countries of Europe and the British Commonwealth, has just been published by the Office of International Trade, Department of Commerce, and copies can be obtained from the Superintendent of Documents, Government Printing Office.

The booklet resumes the series of annual reviews of chemical developments throughout the world which were issued from 1933 to 1939 and discontinued during the war. The war and postwar reconstruction programs have led to many developments in the chemical industries; these are reported in the present booklet. Difficulty in obtaining information from some areas still suffering from the effects of war made it advisable to issue the material in two parts instead of postponing publication until all countries could be covered in one volume.

Part II, containing information on chemical developments in countries not included in part I, will be issued within a few months.

Pennycress Oil Promising

The possibility of making a valuable oil from the seed of pennycress (*Thlaspi*

—*Continued on page 34*

Bismuth Output Up

The installation of modern, improved vacuum dryers has resulted not only in higher production, but also has been instrumental in a decided improvement in color, texture and uniformity. In addition this improved vacuum drying protects the purity of products during the manufacturing cycle.

Bismuth Subcarbonate **Bismuth Subnitrate**
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Chemical—Catalyst in synthesizing acetic acid or propionic acid by condensing carbon monoxide with methanol or ethanol.

Butyl Sulphonamide, Normal

Adhesives—Plasticizer (U.S. 2316242) in adhesive compositions containing cellulose derivatives.

Ceramic—Plasticizer (U.S. 2316242) in compositions, containing cellulose derivatives, used as coatings for protecting and decorating ceramic articles.

Chemical—Plasticizer (U.S. 2316242) for cellulose derivatives.

Cosmetic—Plasticizer (U.S. 2316242) in nail enamels and lacquers containing cellulose derivatives as base material.

Electrical—Plasticizer (U.S. 2316242) in insulating compositions, containing cellulose derivatives, used for covering wire and in making electrical machinery and equipment.

Glass—Plasticizer (U.S. 2316242) in compositions, containing cellulose derivatives, used in the manufacture of nonscatterable glass and as coatings for protecting and decorating glassware.

Leather—Plasticizer (U.S. 2316242) in compositions, containing cellulose derivatives, used in the manufacture of artificial leather and as coatings for protecting and decorating leathers and leather goods.

Metal-Fabricating—Plasticizer (U.S. 2316242) in coating compositions, containing cellulose derivatives, used for protecting and decorating metallic articles.

Miscellaneous—Plasticizer (U.S. 2316242) in coating compositions, containing cellulose derivatives, used for protecting and decorating articles of various sorts.

Paint, Varnish, and Lacquer—Plasticizer (U.S. 2316242) in paints, varnishes, lacquers, enamels, and dopes containing cellulose derivatives.

Paper—Plasticizer (U.S. 2316242) in compositions, containing cellulose derivatives, used in the manufacture of coated papers and as coatings for protecting and decorating articles made of paper or pulp.

Photographic—Plasticizer (U.S. 2316242) in making films from cellulose derivatives.

Plastics—Plasticizer (U.S. 2316242) in making laminated fiber and molded articles, and plastic materials from or containing cellulose derivatives.

Rubber—Plasticizer (U.S. 2316242) in compositions, containing cellulose derivatives, used as coatings for protecting and decorating rubber goods.

Stone—Plasticizer (U.S. 2316242) in compositions, containing cellulose derivatives, used as coatings for decorating and protecting artificial and natural stone.

Textile—Plasticizer (U.S. 2316242) in compositions, containing cellulose derivatives, used in the manufacture of coated fabrics.

Wood—Plasticizer (U.S. 2316242) in compositions, containing cellulose derivatives, used as protective and decorative coatings on woodwork.

Chlorobromo-orthonitrophenol

Resins—Light-stabilizer (U.S. 2344489) for vinylidene chloride polymers.

Coconut-Oil Fatty Acids, Distilled

Cosmetic—Ingredient of shampoos, shaving creams, and other preparations.

Dry Cleaning—Ingredient of dry-cleaning soaps.

Miscellaneous—Available wetting agent for pigments, many of which find applications in the leather, linoleum and oilcloth, paint, paper, plastics, rubber, textile, and other industries.

Resins—Formulating material in making synthetic resins.

Soap—Raw material in soapmaking.

Magnesium Lactacetylsalicylate

Chemical—Claimed (Brit. 537112) as new soluble derivative of acetylsalicylic acid having good stability both as a solid material and in aqueous solution.

AIC Medal Winner

Dr. Charles A. Thomas, executive vice-president and technical director of Monsanto Chemical Company, St. Louis, has been awarded the 1948 gold medal of the American Institute of Chemists. Presentation of the medal will be made at the annual meeting of the Institute in New York on May 8. The award recognized "not only Dr. Thomas' work in the development of atomic energy and his leadership in research, but also his administrative ability and his encouragement of basic research."

Newman Leaves Corn Industries Foundation

John B. Newman, vice-president and Washington representative of the Corn Industries Research Foundation, has retired from active duty, but will continue to serve the foundation in an advisory capacity. Succeeding him in Washington are Floyd J. Hosking, named to the newly-created post of director, and Howard A. Prentice, associate director.

Mr. Newman became associated with the foundation in 1933. He had previously been associated with the Corn Products Refining Company and the Royal Baking Powder Company, and was at one time commissioner of foods and dairies for the State of Illinois and later field secretary of the National Wholesale Grocers Association.

Calif. Chemical Salesmen Elect Hockwald President

The Chemical Salesmen's Association of California elected Lee Hockwald, of the Hockwald Chemical Company, president, at its recent meeting at the Sir Francis Drake hotel. Other officers elected were:—First vice-president, W. H. Oliver, Stauffer Chemical Company; second vice-president, Harold Scism, Dow Chemical Company; treasurer, Raoul J. Landry, Shell Chemical Corporation, and secretary, A. W. Hempelmann, Monsanto Chemical Company.

Plant Science Lectures Scheduled in Brooklyn

A series of four monthly lectures in plant science is being given at the Brooklyn Botanic Garden, 1000 Washington avenue, Brooklyn. Each lecture is begun at 8:00 p.m. Two of the subjects which have a particular industrial appeal are:—(1) "Internal Medicine for Trees," by Dr. James G. Horsfall, of the Connecticut Agricultural Experiment Station, February 10, and (2) "Antibiotics, the Germ-Fighting Agents Produced by Microorganisms," by Dr. Selman A. Waksman, of the New Jersey Agricultural Experiment Station, April 9.

O'Brien Corp Elects J.J.Crowley President

Jerome J. Crowley, jr., has been elected president of the O'Brien Corporation, paint manufacturer, South Bend, Ind., to succeed F. M. Reece, who, at his own request, has

Jerome J. Crowley, jr.

been relieved of official duties so that he may devote his entire time to research work. Mr. Reece will continue with the company as director of research and member of the board of directors.

Eugene L. O'Brien, son of the late George L. O'Brien, has been elected vice-president and treasurer. Both Mr. Crowley and Mr. O'Brien are grandsons of Patrick O'Brien, who founded the company in 1875.

The thirty-eight-year-old Mr. Crowley started with the company shortly after graduating from the University of Notre Dame in 1931. Most of his duties have been concerned with advertising and sales promotion work and he has held the positions of advertising manager, treasurer and vice-president.

Officers reelected include Jerome J. Crowley, sr., chairman of the board; O. A. Fulkerson, secretary, and the following vice-presidents:— Frederick J. O'Brien, Maurice O'Brien, C. J. Morris, John M. McCarthy and Noel J. Roe.

Association Meeting Dates

Affiliated Drug Stores, New Yorker hotel, New York, March 14-18.
American Chemical Society, Chicago, April 19-23.
American Drug Manufacturers Association, Mount Washington hotel, Bretton Woods, N. H., June 7-10.
American Institute of Chemists, Pennsylvania hotel, New York, May 8.
American Institute of Chemical Engineers, New York, November 7-10.
American Institute of Mining and Metallurgical Engineers, Pennsylvania hotel, New York, February 15-19.
American Oil Chemists Society, Pennsylvania hotel, New York, November 15-18.
American Society of Hospital Pharmacists, San Francisco, August 8.
Animal Health Institute, St. Paul, Minn., April 19-20.
Associated Chain Drug Stores, New Yorker hotel, New York, March 7-11.
Association of American Soap and Glycerine Producers, Waldorf-Astoria hotel, New York, January 28-29.
Chemical Market Research Association, Mayflower hotel, Washington, D. C., January 22.
Commercial Chemical Development Association, Roosevelt hotel, New York., March 9-10.
Compressed Gas Manufacturers Association, Waldorf-Astoria hotel, New York, January 19-20.
Drug, Chemical and Allied Trade Section, New York Board of Trade, Waldorf-Astoria hotel, New York, March 11.
Druggists Supply Corporation, Pennsylvania hotel, New York, March 7-12.
Federal Wholesale Druggists Association, Pennsylvania hotel, New York, March 8-10.
Greater New York Safety Council, Pennsylvania hotel, New York, April 13-15.
Industrial Research Institute, Rye, N. Y., February 5.
Materials Handling Exposition, public auditorium, Cleveland, January 12-16.
Mining and Metallurgical Society of America, Mining Club, New York, January 13.
National Association of Corrosion Engineers, Jefferson hotel, St. Louis, Mo., April 5-8.
National Association of Purchasing Agents, Waldorf-Astoria hotel, New York, May 31-June 2.
National Confectioners Association, Waldorf-Astoria hotel, New York, June 20-25.
National Farm Chemurgic Council, Fontenelle, Omaha, Nebr., March 3-6.
Natural Gasoline Association, Texas hotel, Fort Worth, Tex., March 24-26.
National Plastics Exhibition, Grand Central Palace, New York, September 27-October 1.
National Petroleum Association, Cleveland hotel, Cleveland, Ohio, April 21-23.
National Wholesale Druggists Association, Palm Beach Biltmore hotel, Palm Beach, Fla., April 3-8.
New York BIMS, annual dinner, January 22.
Northeastern States Weed Control Conference, Commodore hotel, New York, February 12-13.
Oil Trades Association of New York, quarterly meeting, Waldorf-Astoria hotel, New York, January 22.
Proprietary Association, Claridge hotel, Atlantic City, N. J., May 24-26.
Section on Food, Drug and Cosmetic Law, New York State Bar Association, 42 West Forty-fourth street, New York, January 22.
Southern Paint and Varnish Production Club, Atlanta-Biltmore hotel, Atlanta, Ga., March 11-12.
Toilet Goods Association, Waldorf-Astoria hotel, New York, May 18-20.

Plastic Materials Ass'n Reelects Top Officers

John R. Hoover, of Cleveland, vice-president of B. F. Goodrich Chemical Company, and D. S. Frederick, of Philadelphia, vice-president of Rohm & Hass, Inc., were reelected president and vice-president, respectively, of the Plastic Materials Manufacturers Association at its annual meeting in New York last week. F. H. Carman was elected secretary-general manager, and John E. Walker, treasurer of the association, with headquarters in Washington, D. C.

New members elected to the board of directors are:—C. F. Hosford, jr., vice-president of Koppers Company; W. W. Knight, jr., general manager of Plaskon division, Libbey-Owens-Ford Glass Company, and Spencer E. Palmer, assistant vice-president of Tennessee Eastman Corporation. Harry Krehviel, president of Catalin Corporation of America, and W. S. Landes, vice-president of Celanese Corporation of America, will continue as directors along with Mr. Hoover and Dr. Frederick.

Arnold E. Pitcher, general manager of the plastics department, E. I. du Pont de Nemours & Co., the past president of the association, will serve in an advisory capacity to the board of directors.

The resin adhesive division of the association elected J. C. Garrels, jr., manager of Lockport plant, Western division, Monsanto Chemical Company, as its chairman for 1948. In addition to Mr. Garrels, the managing committee of the division will include W. N. Shepard, manager of the industrial glues and resins of the Plaskon division, Libbey-Owens-Ford Glass Company, and the division's retiring chairman R. G. Booty, assistant to the president, Interlake Chemical Corporation.

Progress in a research project, particularly details of a new testing machine, resulting from study sponsored by PMMA at the Massachusetts Institute of Technology, was announced to industry during the meeting.

The research project, now entering its third year, is directed toward a fundamental study of the engineering properties of plastics. It became evident quite early in the work that specialized testing equipment designed specifically for the testing of plastics of all kinds would have to be designed and built. The new machine now in operation at the institute is a combination of known principles of various types and is the first of its kind to take advantage of recent developments, particularly the use of servo mechanisms and electronic controls.

This machine permits the precise measurement of physical properties of plastics, taking into consideration the importance of time as a primary function; it provides constant rates of stress, strain, cross head motion, load application, and permits the continuous testing of a sample from tension to compression. Auxiliary equipment includes freely suspended and self-aligning grips, a special bending jig, torsion and shear fixtures, and special extensometers operating through the servo mechanism.

The new testing equipment, together with specialized instruments for rapid determination of molecular weight and molecular distribution, opens a new horizon in plastics testing and now completes the instrumentation for the institute to proceed to the main objective—the study of the mechanical stress strain phenomena of plastics as related to their molecular structure. The testing machine, a by-product of the original project, should have applications and become useful for testing other materials such as rubber, metals and wood products.

The work of the institute is being directed by a steering committee composed of Dr. Frederick and Prof. A. G. H. Dietz, of MIT. The technical men of the association, together with representatives of ASTM and SPI, have been assisting in this work. Results of the research are being made freely available to the industry through publication of industry journals.

Edco Names Barthel Research Vice-President

William F. Barthel, head of the insecticide division of Victor Products Corporation since 1946, and former chemist with the insecticide division of bureau of entomology and plant quarantine of the Department of Agriculture, has been appointed vice-president in charge of research and development for the Edco Corporation, Elkton, Md. The appointment is effective February 1.

NPVLA Executive Body Meets January 20

OPD Washington Bureau

The executive committee of the National Paint, Varnish and Lacquer Association will hold its annual organization meeting at the Pennsylvania hotel, New York, on January 20. The budget and finance committee will meet at the same hotel on the preceding day.

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Current Market Quotations

Chemicals and Related Materials

January 9, 1948

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.

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A

Acacia (see Gum, arabic).
Acetaldehyde, 99%, dms., 55 gals., works..lb. .11½- .12
5 and 10 gals., works.....lb. .12 - .16
tanks, works .....lb. .09½- .10½
Acetaldol (see Aldol).
Acetamide, CP, fib, dms.....lb. .65 - .75
tech., fib, dms.....lb. .38 - .43
Acetanilide, tech., bbls., c.l.....lb. .19 - .21
l.c.l. .....lb. .20 - .25
kgs. .....lb. .23 - —
USP, bbls., 2,000-lb. lots.....lb. .40 - .41
smaller lots .....lb. .41 - .42
Acetic anhydride, dms., c.l., frt. all. E.
lb. .13½- —
l.c.l., frt. alld. E.....lb. .14½- —
tanks, frt. alld. E.....lb. .12 - —
Acetoacetanilide, bbls., dms.....lb. .67½- —
Acetone, CP, dms., c.l., dlvd.....lb. .09½- —
l.c.l., dlvd.....lb. .10½- —
tanks, dlvd.....lb. .08 - —
Methyl (see Mi).
Acetonitrile, dms., c.l., works.....lb. .45 - —
l.c.l., works .....lb. .50 - —
smaller containers, works.....lb. .55 - .60
Acetophenetidin, USP, bbls., works, frt. equald..lb. 1.10 - 1.20
Acetophenone, cns., dms.....lb. 1.50 - 1.85
Acetyl chloride clys., works.....lb. .60 - —
Acetyltributyl citrate, dms. .....lb. .43 - .51
smaller pkgs. .....lb. .54 - —
Acetyltriethyl citrate, dms.....lb. .36 - .44
smaller pkgs. .....lb. .47 - —
Acid, abietic, dms., c.l., works.....lb. .07½- —
Acetic, com'l or redist. 28%, bbls...
100 lbs. 3.78 - 4.08
56%, bbls. .....100 lbs. 7.56 - 7.81
70%, bbls. .....100 lbs. 9.45 - 9.70
80%, bbls. .....100 lbs.10.80 -11.05
glacial, synthetic, C.P., dms., works
100 lbs.12.50 -14.00
tanks, works .....100 lbs. 7.62 - 8.62
tech., dms., c.l., works..100 lbs.10.07 -11.00
USP, dms., works. ...100 lbs.11.50 -12.00
Acetic acid price ranges above are c.l. and l.c.l. quantities. Carboys and cases are 50c. per 100 lbs. higher.
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP, special, bbls., makers, primary distrib., point of ship't, 100-lb. lots..lb. .50 - —
smaller lots. .....lb. .51 - .64
standard, fine, cryst., gran. (30-40 mesh), powd. (80 mesh), bbls., same basis..lb. .45 - .50
Freight equalized, shipment identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.
Aminoacetic, NF, bbls., frt. adjusted.
lb. 1.50 - 1.75
Anthranilic, resub., bbls.....lb. 2.00 - 2.30
tech., bbls..... .....lb. 1.00 - 1.35
Arsenous, tech. (see Arsenic, white).
USP, powd., dms., kgs.....lb. .20 - .22
Ascorbic, USP, dms., 500-kilo lots ...
kilo.24.50 - —
25-50 kilo lots.....kilo.25.00 - —
10-kilo lots.....kilo.25.35 - —
5-kilo lots.....kilo.25.70 - —
bots., kilo lots.....kilo.26.41 - —
500 grams.....kilo.27.47 - —
Battery, clys., c.l., E. works.100 lbs. 1.60 - 1.75
l.c.l., E. works.....100 lbs. 2.05 - 2.75
Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,900 lbs.....lb. .44 - —
900 lbs. or less.....lb. .47 - —
USP, bbls., 4,000 lbs. up.....lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .59
dms., 4,000 lbs. up.....lb. .55 - .56
1,000 to 3,900 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .58 - .59
Betaoxynaphthoic, bbls., works....lb. 1.15 - 1.22
Boric, tech., 99.5%, cryst., paper bgs., c.l., frt. split.....ton.124.00 - —
ton lots, ex whse.....ton.144.80 - —
less than ton lots, ex whse.. ton.149.70 - —
powd., paper bgs., c.l., frt. split..ton.104.00 - —
ton lots, ex whse, N. Y. or Chi..ton.124.80 -125.00
less ton lots, same basis.ton.129.70 -130.00
bbls., c.l., frt. split.....ton.124.00 - —
ton lots, ex whse, N. Y. or Chi..ton.144.70 -145.00
less car lots, same basis.ton.149.70 -150.00
gran., bulk .....ton.95.50 - —
paper bgs., c.l., frt. split..ton.99.00 - —
ton lots, ex whse., N. Y. or Chi..ton.119.70 -120.00
less ton lots, same basis.ton.124.80 -125.00
bbls., c.l., frt. split.....ton.119.00 - —
ton lots, ex whse., N. Y. or Chi..ton.139.70 -140.00
less ton lots, same basis.ton.144.70 -145.00
USP $25 per ton higher.
Broener's, bbls. .....lb. 1.22 - 1.34
Butyric, 99%, dms., c.l., works..lb. .32 - —
l.c.l., works.....lb. .33 - —
Cacodylic, bots.....lb.12.00 -16.50
Camphoric, natural, dms.....lb. 8.00 - 8.50
synth., dms.....lb. 6.00 - 6.50
Caprie, tech., rct. dms.....lb. .50 Nom.
Caprylic, 99%, dms.....lb. .50 Nom.
Castor oil, split, dms.....lb. .36½- .37¼
Chlorosulphonic, dms., c.l., works.lb. .03 - —
l.c.l., works.....lb. .03½- .04½
tanks, works.....lb. .02½- —
Chromic, 99½%-99¾%, dms., c.l...lb. .21½ Nom.
l.c.l. .....lb. .22½- .23½
Cinnamic, refd., bots.....lb. 3.00 - 4.00
Citric, anhyd., gran., fine gran., bbls.
lb. .25½- —
dms., c.l. .....lb. .24 - —
10,000 lbs., 1 ship't.....lb. .24½- —
kgs. .....lb. .25½- —
Anhydrous citric acid powder, ½c. per lb. higher.
USP, cryst., bbls., c.l.....lb. .25 - —
10,000 lbs., 1 ship't.....lb. .25½- —
smaller lots.....lb. .26 - —
kgs. .....lb. .26½- —
gran., fine gran., bbls., c.l.....lb. .22 - —
10,000 lbs., 1 ship't.....lb. .22½- —
smaller lots.....lb. .23 - —
kgs. .....lb. .23½- —
USP citric acid powder ½c. per lb. higher.
Cleve's, bbls., mixed.....lb. .61 - .65
Acid, coconut oil, dist., dms.....lb. .30¾- .31¾
Corn oil, s.d., dms.....lb. .25¾- .26¾
Cottonseed, dist., dms.....lb. .23¾- .24¾
Cresylic, dom., coal tar, high-boil 50% (210°-215°), low boil 50% (204°-206°), and special blends, dms., c.l., works, frt. equald. gal. 1.26 - 1.48
l.c.l., same basis.....gal. 1.29 - 1.51
tanks, same basis.....gal. 1.20 - 1.42
Petroleum, heavy grade, 220° to 240° C. dms., c.l., dlvd. E. Rockies..gal. .86 - —
l.c.l., same basis.....gal. 1.00 - —
tanks, same basis.....gal. .77½- —
Calif. ref'y .....gal. .62 - —
225°-290° C. dms., c.l., dlvd. E. Rockies..gal. .79 - —
l.c.l., same basis.....gal. 1.00 - —
tanks, same basis.....gal. .70½- —
Calif. ref'y .....gal. .57½- —
Crotonic, bbls., Canadian, works.lb. .35 - —
Dichlorophenoxyacetic, fib. dms., c.l., works..lb. .80 - —
l.c.l., works.....lb. .85 - .95
Diethylbarbituric (see Barbital)
F (see Acid, monosulphonic)
Folic, bots.....gm. 2.00 - 2.10
Formic, 85%, clys., c.l., works....lb. .12 - .13
l.c.l., works .....lb. .12½- .14½
90%, clys., c.l., works.....lb. .12½- .13½
l.c.l., works .....lb. .13 - .14½
Fumaric, tech., bbls., dms.....lb. .27 - .31
Gallic, NF V, bbls., 1,000-lb. lots..lb. 1.40 - —
smaller lots .....lb. 1.43 - 1.45
technical, bbls., 1,000-lb. lots....lb. 1.23 - —
smaller lots .....lb. 1.26 - 1.28
Gamma, bbls. .....lb. 1.05 - 1.07
Gluconic, tech., 50%, bots.....lb. .23 - .31
dms. .....lb. .14 - —
kgs. .....lb. .16 - —
Glycolic (see Acid, hydroxyacetic).
H, bbls., works.....lb. .50 - —
Hydriodic, 45-47%, clys.....lb. 2.52 - 2.54
57%, clys. .....lb. 2.83 - 2.85
Hydrobromic, medicinal, 48%, clys., dlvd. E..lb. .48 - —
tech., 48%, clys., dlvd. E.....lb. .45 - —
34%, clys., dlvd. E.....lb. .25 - .37
Hydrochloric (see Acid, muriatic).
Hydrocyanic, clys., works.....lb. .80 - 1.00
dilute, NF, 2%, 5-lb. bots.....lb. .30 - .40
Hydrofluoric, anhyd., clys., works..lb. .19 - 19½
tanks, works .....lb. .16 - —
30%, rubber dms., works.....lb. .08 - .09
48%, rubber dms., works.....lb. .12 - —
52%, rubber dms., works.....lb. .12½- —
60%, rubber dms., works.....lb. .13½- —
Hydrofluosilicic, 30-32%, bbls.....lb. .08 - .09
Hydroxyacetic, tech., 70%, bbls., non-return., Phila..lb. .084 - —
tanks, Belle, W. Va., 100% basis, lb. .085 - —
Hypophosphorous, USP, dms.....lb. .75 - .77
J, bbls., works, 20% basis.....lb. 2.42 - —
L, bbls., works.....lb. .73 - —
Lactic, edible, 50%, bbls., 20 or more, lb. .14½- —
smaller lots .....lb. .15 - —
80%, bbls., 5 or less.....lb. .24¼- 24¾
plastic grade, 50%, bbls., 20 or more, lb. .17½- —
10 or less.....lb. .18¼- —
80%, bbls., 5 or less.....lb. .31¾- .32½
tech., 22%, bbls., c.l., works.100 lbs. 4.40 - —
l.c.l., works .....100 lbs. 4.80 - —
clys., works .....100 lbs. 5.30 - —
44%, bbls., c.l., works.....100 lbs. 8.15 - —
l.c.l., bbls., works.....100 lbs. 8.55 - —
clys., works .....100 lbs. 9.05 - —
USP XII, 85%, clys.....lb. .54 - .57
USP VIII, 75%, clys.....lb. .52 - .59
Laurent's, bbls. .....lb. .70 - —
Lauric, dist., 85-90%, dms.....lb. .45 Nom.
60%, dms.....lb. .37 Nom.
Linseed oil, light, dms.....lb. .42 Nom.
Maleic, powd., dms.....lb. .26 - .30
Anhydride (see Mi).
Malic, powd., kgs.....lb. .47 - —
Mandelic, NF, dms., 1,000-lb. lots..lb. 2.35 - —
smaller lots .....lb. 2.40 - 2.60
Mixed, tanks, nitric unit.....lb. .05 - .06
sulphuric unit .....lb. .0085- .009
Molybdic, kgs., works.....lb. .95 - 1.10
Monochloroacetic, purified, flake, 99% dms..lb. .21 - .22½
tech., flake, 96-97%, bbls.....lb. .17½- .19½
Monosulphonic, bbls. .....lb. 1.50 - —
Muriatic, 18°, clys., c.l., E. works. 100 lbs. 1.50 - 1.70
l.c.l., E. works.....100 lbs. 1.90 - 2.90
tanks, E. works.....ton.18.00 -18.20
20°, clys., c.l., E. works.....100 lbs. 1.85 - 2.00
tanks, E. works.....ton.20.00 -21.00
22°, clys., c.l., E. works.....100 lbs. 2.35 - 2.50
tanks, E. works.....ton.22.00 -26.00
CP, USP, consumers, clys., extra. lb. .08 - —
6-lb. bots., extra.....lb. .10 - —
dealers, clys., extra.....lb. .06½- —
6-lb. bots., extra.....lb. .08½- —
Myristic, dist., dms.....lb. .45 Nom.
Naphthenic, 220-230 acidity, dms., extra, works..lb. .13 - —
tanks, works .....lb. .10 - —
230-240 acidity, dms., extra, works. lb. .20 - —
tanks, works .....lb. .17 - —
Naphthol(1-4-sulphonic (see Acid, Neville and Winther's)
Naphthol(1-5-sulphonic (see Acid L).
Naphthol(1-5-sulphonic,8-amino (see Acid, S).
Naphthol(1-3,6,-disulphonic,8-amino (see Acid, H).
Naphthol(2-6,8-disulphonic (see Acid, Gamma).
Naphthol-sulphonic, mixed (see Acid, Cleve's, mixed).
Naphthylamine(1-5-sulphonic (see Acid, J).
(2-6-sulphonic (see Acid, Broener's).
Neville and Winthers, dms.....lb. .73 - .76
Nicotinic, USP, dms., works....kilo. 6.00 - 6.30
Nicotinic amide (see Nicotinamide).
Nitric, 36°, clys., c.l., E. works... 100 lbs. 5.00 - —
l.c.l., E. works.....100 lbs. 5.25 - 5.95
38°, clys., c.l., E. works.....100 lbs. 5.50 - —
l.c.l., E. works.....100 lbs. 5.75 - 6.45
Acid, nitric, 40°, clys., c.l., E. works. 100 lbs. 6.00 - 6.50
l.c.l., E. works.....100 lbs. 6.25 - 6.95
42°, clys., c.l., E. works....100 lbs. 6.50 - 7.00
l.c.l., E. works.....100 lbs. 6.75 - 7.45
CP, USP, consumers, clys., extra. lb. .13 - —
7-lb. bots., cs., extra.....lb. .15 - —
dealers, clys., extra.....lb. .11½- —
7-lb. bots., cs., extra.....lb. .13½- —
Oleic (see Oil, red).
Oleum (see Acid, sulphuric, fuming).
Oxalic, bbls., c.l., works.....lb. .13¼- .13½
10,000 lbs., works.....lb. .13¼- .13¾
smaller lots, works.....lb. .14½- .14¾
Palm oil, white, dist., dms.....lb. 21¼- 21⅜
Para-aminobenzoic, purified, dms., works..lb. 4.60 - —
technical, bbls., works.....lb. 1.70 - —
Paramethylphenyleinchonic (see Neocinchophen).
Paranitrobenzoic, cns. .....lb. .80 - —
Paratoluidinemetasulphonic, bbls., wks. lb. .85 - —
Peanut oil, s.d., dms. .....lb. .25¼- .26¼
Phenylacetic, bots. .....lb. 1.51 - 1.75
Phenylglycollic (see Cinchophen).
Phenylglycollic (see Acid, mandelic).
Phosphoric, food grade, 50%, bbls., c.l., works, frt. equald..... 100 lbs. 4.50 - —
l.c.l., same basis.....100 lbs. 5.25 - 6.00
clys., c.l., works, frt. equald.. 100 lbs. 5.00 - —
l.c.l., works, frt. alld.100 lbs. 6.00 - 7.50
75%, bbls., c.l., works, frt. equald..100 lbs. 5.75 - —
clys., c.l., works, frt. equald. 100 lbs. 6.10 - —
l.c.l., works, frt. alld..... 100 lbs. 8.00 - 9.00
tanks, works, frt equald.... 250 lbs. 4.00 - —
USP XII, 85%, 100-lb. clys., c.l..lb. .10½- —
l.c.l. .....lb. .11½- .12
70-lb. clys .....lb. .10½- —
l.c.l. .....lb. .11½- .12
dilut., 10%, clys., dms.....lb. .07 - .07½
Picramic, bgs. .....lb. .65 - .70
Picric, bbls. .....lb. .30 - .31
Propionic, nat., dms., works.....lb. .18 - —
tanks, works .....lb. .17 - —
synth., pure, dms., works.....lb. .22 - —
tanks, works .....lb. .21 - —
Pyrogallic, tech., bbls. .....lb. No prices
N.F., cryst., dms. .....lb. 2.80 - 3.03
resub., dms. .....lb. 3.30 - 3.45
Pyroligneous, bbls., incl., l.c.l., ex whse..gal. .43 - —
Ricinoleate (see Acid, castor oil, sulphated).
S, bbls., works.....lb. 2.54 - —
Salicylic, tech., bbls., c.l.....lb. .31 - —
smaller lots.....lb. .38 - —
USP, bbls., c.l. .....lb. .40 - —
smaller lots.....lb. .47 - —
Sebacic, tech., dms., c.l. works..lb. No stocks
Soybean oil, s.d., c.l., works.....lb. .25½- .26¼
Stearic, double pressed, bgs.....lb. .37 - .38
single pressed, bgs.....lb. .36½- .37½
triple pressed, bgs.....lb. .39¼- .40¼
Succinic, bbls. .....lb. .87 - .90
Sulphanilic, CP, bots., works.....lb. 1.60 - 1.65
tech., dms., works.....lb. .17 - —
Sulphuric, 60°, clys., c.l., E. works. 100 lbs. 1.25 - —
l.c.l., E. works.....100 lbs. 1.50 - 2.20
tanks, E. works.....ton.12.25 - —
66°, clys., c.l., E. works....100 lbs. 1.50 - —
l.c.l., E. works.....100 lbs. 1.75 - 2.45
tanks, E. works.....ton.15.00 - —
98%, tanks, E. works.....ton.17.50 -18.50
CP, N.F., consumers clys., extra..lb. .08 - —
9-lb. bots., cs., extra.....lb. .10 - —
dealers, clys., extra.....lb. .06½- —
9-lb. bots., cs., extra.....lb. .08½- —
fuming, 20%, tanks, E. works..ton.19.50 -20.50
Tallow, dist., dms.....lb. .27¾- .28¼
Tannic, tech., 60-62%, dms.....lb. .68 - .69
70-72%, dms. .....lb. .80 - .85
75-76%, dms. .....lb. .86 - .90
USP, fluffy, bbls., 1,000-lb. lots..lb. 1.45 - —
smaller lots.....lb. 1.47 - 1.55
powder, bbls., 1,000-lb. lots....lb. 1.35 - —
smaller lots .....lb. 1.39 - 1.50
Tartaric, USP, bbls, 10,000 lbs., 1 ship't..lb. .45½- —
smaller lots .....lb. .46 - —
dms. .....lb. .48 - .49
kgs. .....lb. .46½- —
Thioglycolic, refined, bbls., clys., basis 100%...lb. 1.95 - 2.00
tech., bbls., clys. basis 100%..lb. 1.40 - —
Toblas, bbls. .....lb. .62 - —
Toluenesulphonic, dms., works....lb. .20 - —
Trichloracetic, bots. .....lb. 2.00 - 2.50
Tungstic, CP, 100-lb. pkgs.....lb. 3.50 - —
pure, 100-lb. kgs.....lb. 3.10 Nom.
Aconite leaves, bls. .....lb. .60 - .65
Root, bls. .....lb. 1.10 - 1.15
Aconitine, amorph., mild, bots.....oz.32.50 - —
cryst., potent. bots.....oz.85.00 - —
Acrylonitrile, dms., c.l. works....lb. .28½- —
l.c.l., works .....lb. .30½- .42½
tanks, works. .....lb. .28½- —
Adeps lanae (see Lanolin).
Adonis vernalis herb, bls.....lb. .60 - .65
Agar .....lb. 3.85 Nom.
Agaric, white, bls. .....lb. 2.75 - 3.00
Agrimony herb, bls.....lb. .40 - .45
Albumen (egg), edible flake, bbls....lb. 3.00 - 3.50
powd., bbls. .....lb. 3.05 - 3.55
tech., cryst., bbls.....lb. 1.25 - 1.45
Albumin, blood, dark (see Blood, dried, soluble)
light, dms., l.c.l. .....lb. .70 - .75
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd.....lb. .26½- —
l.c.l., dlvd .....lb. .27 - —
tanks, dlvd. .....lb. .25 - —
Amyl, ex pentane, dms., c.l., frt. alld. E. of Miss..lb. .18 - —
l.c.l., frt. alld. E. of Miss..lb. .19 - —
tanks, frt. alld. E. of Miss....lb. .17 - —
(see also Fusel oil, ref.)
Benzyl, cns. .....lb. .72 - .80
dms. .....lb. .68 - .88

Acacia—Alphatocopherol

Alcohol, butyl, normal, ferment. Ill., Ind. prod., dms., c.l., frt. alld.lb. .36½- —
l.c.l., frt. alld. E.....lb. .37½- —
tanks, frt alld. E.....lb. .35 - —
tankwagon, frt. alld. E.....lb. .35½- —
other production, dms., c.l., frt. alld. E..lb. .33½- —
l.c.l., frt. alld. E.....lb. .34½- —
tanks, frt. alld. E.....lb. .32 - —
synthetic dms., c.l., frt. alld. E..lb. 18½- —
l.c.l., frt. alld. E.....lb. 19 - —
tanks, frt. alld. E.....lb. 17 - —
Normal butyl alcohol prices in West, ½c per lb. higher
secondary, dms., c.l., dlvd.....lb. .13½- —
l.c.l., dlvd.....lb. .14 - —
tanks, dlvd.....lb. .12 - —
tertiary, dms., c.l.....lb. .12½- —
l.c.l., dms. .....lb. .13 - —
tanks .....lb. 11 - —
Capryl, dms., c.l., works.....lb. .26 - —
l.c.l., works. .....lb. .27 - —
tanks, works .....lb 24½- —
Cetyl, dom., CP, fiber cins., 1,000 lbs..lb. 2.25 - —
smaller lots .....lb. 2.30 - 2.35
Cinnamic, bots. .....lb 3.00 - —
Denatured, CD12, CD13, dms.,dlvd. E of Miss. R..gal. 1.60½- 1.63
l.c.l., dlvd. E. of Miss. R.gal. 1.04½- 1.12
tanks, dlvd. E. of Miss. R...gal. .93½- .96
Tankcar sales require written authorization by Alcohol Tax Unit.
SD1, 190 pf., dms., c.l., dlvd. E. of Miss R..gal. 1.60 - 1.63
l.c.l., same basis.....gal. 1.04 - 1.12
tanks, same basis.....gal. .93 - .96
SD2B, dms., c.l., dlvd. E. of Miss. R..gal. 1.60 - 1.63
l.c.l., same basis.....gal. 1.04 - 1.12½
tanks, same basis.....gal. .93 - .96½
SD23H, dms., c.l., dlvd. E. of Miss. R..gal .98 - 1.01½
l.c.l., same basis.....gal. 1.02 - 1.10½
tanks, same basis.....gal. .91 - .94½
SD29, denatured with acetaldehyde, dms., c.l., dlvd. E. of Miss. R..gal. 1.64 - —
l.c.l., same basis.....gal. 1.08 - 1.13
tanks, same basis.....gal. .97 - —
When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.
Special solvent, dms., c.l., dlvd. E. of Miss R..gal. 1.62 - 1.63½
l.c.l., same basis.....gal. 1.07 - 1.12
tanks, same basis .....gal. .96 - .96½
Tankcar sales require written authorization by Alcohol Tax Unit.
Diacetone, acetone free, dms., c.l., dlvd..lb. .14½- —
l.c.l., dlvd.....lb. .15½- —
tanks, dlvd.....lb. .13 - —
tech., dms., c.l., dlvd.....lb. .14 - —
l.c.l., dlvd.....lb. .15 - —
tanks, dlvd.....lb. .12½- —
Ethyl, 190 pf., dms., c.l., dlvd. E. Miss. R...gal.18.10 -18.13
l.c.l., same basis.....gal.18.14 -18.22
tanks, same basis.....gal.18.03 -18.06
absolute, dms., c.l., same basis. gal.19.03 -19.10
l.c.l., same basis.....gal.19.11 -19.19
tanks, same basis.....gal.19.00 -19.03
Ethylhexyl, dms., c.l., works.....lb .29½- —
l.c.l., works .....lb .30½- —
tanks, works .....lb .28½- —
Furfuryl, tech., cns., works ....lb. .55 - —
dms., c.l., works.....lb. .22½- —
l.c.l., works.....lb. .23 - —
tanks, works.....lb. .19 - —
Isoamyl (see Carbinol, Isobutyl).
Isobutyl, refd., dms., works .....lb. .13 - —
tanks, works.....lb. .12 - —
Isopropyl, refd., 91%, dms., incl., c.l., dlvd..gal. .50½- —
l.c.l., dlvd.....gal. .53½- —
tanks, dlvd.....gal. .41 - —
99%, dms., incl., c.l., dlvd.....gal. .54½- —
l.c.l., dlvd.....gal. .57½- —
tanks, dlvd.....gal. .45 - —
Methyl (see Methanol).
Methylamyl (see Carbinol, methyl-isobutyl).
Octyl, perfumer's grade, bots.....lb. 4.00 - 4.40
Phenylethyl, dms.....lb. 2.30 - 3.50
Polyvinyl, type A, fiber-pack, Niagara Falls..lb. .65 - .70
type B, fiber-pack, same basis..lb. .60 - .68
Propyl, normal, dms., c.l., works..lb. .12½- —
l.c.l., works.....lb. .13 - —
tanks, works.....lb. .11 - —
Salicyl (see Salicin).
Tetrahydrofurfuryl, cns., Cedar Rapids, Ia..lb. .47 - —
dms., c.l., Waverly, N. Y.....lb. .40 - —
l.c.l., same basis.....lb. .44 - —
tanks, Niagara Falls, N. Y.....lb. .36 - —
Aldol, 95%, dms., works.....lb. .15 - .16
denaturing grade, dms.....gal. 1.33 - 1.48
Aletris root, bgs.....lb. 1.85 - 1.90
Algin, bbls., fib, dms.....lb. .76 - 1.00
Alizarin (see Red, alizarin).
Alkanet root, bgs.....lb. .70 - .75
Allspice, Jamaica (see Pimento).
Mexican, bgs. .....lb. .14 - .14½
Allyl bromide, clys., 5,000 lbs., works. lb. .99 - —
smaller lots, works.....lb. 1.05 - 1.10
Chloride, dms., c.l., dlvd.....lb. .14 - —
l.c.l., dlvd. .....lb. .14½- —
tanks, dlvd.....lb. .12½- —
Aloe, Cape, cs.....lb. .30 - .31
Curacao, kgs.....lb. .35 - .36
Socotrine, kgs .....lb. .35 - .36
Aloin, bbls., dms., kgs.....lb. 3.75 - 4.05
Alphacellulose, bgs., c.l., works....lb. .64 - .15
Alphanaphthol, bbls. .....lb. .64 - —
Alphanaphthylamine, bbls.....lb. .35 - .35¼
Alphanaphthylthiourea, bbl. dms., works, frt. alld. lb. 4.00 - 4.40
Alphanitronaphthalene, bbls.....lb. .24 - —
Alphapicoline, rct. dms., works, frt. equald..lb. .24 - .27½
Alphapinene, tanks, S works ...gal. .47 - —
Alphaterpineol, dms., l.c.l., dlvd E...lb. .18 - —
Alphatocopherol, ampuls.....kilo.750.00 - —

Althea Root—Asbestos

Althea root, NF, peeled, bls.....lb. .35 - .40
Alum, ammonia, burnt, USP, bbls., kgs. lb. .16 - .18
gran., bbls., works.....100 lbs. 4.00 - —
lump, bbls., works.....100 lbs. 4.25 - —
powd., bbls., works.....100 lbs. 4.40 - —
Potash, gran., bbls., works...100 lbs. 4.25 - —
lump, bbls., works.....100 lbs. 4.50 - —
powd., bbls., works.....100 lbs. 4.65 - —
Potash-chrome, bbls.....lb. 12½- .15
Soda, bbls., c.l., works.....100 lbs. 3.25 - —
l.c.l., dlvd.....100 lbs. 4.25 - 5.00
Alumina, classified grade, grd., kgs., works..lb. .35 - .37
top grade, grd., kgs., works.....lb. .60 - .67
unclassified, grd., kgs., works...lb. 10½- .40
Aluminum acetate, basic solution, 24%, bbls., l.c.l., works..lb. .11 - —
20%, bbls., l.c.l., works.....lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., works..lb. .10 - .11
l.c.l., works.....lb. .10¼- —
cryst., com'l, dms., c.l., works. lb. .06 - —
l.c.l., works.....lb. .06½- .06¾
solution, 32°, clys., c.l., works...lb. .02¾- —
l.c.l., works.....lb. .03¼- —
Fluoride, tech., bbls., c.l.....lb. .25 - —
Formate, solution, 19° Be., bbls., c.l., lb. .09½- —
l.c.l., works.....lb. .10 - —
Hydrate, heavy, bgs., c.l., works.ton.56.00 - —
l.c.l., works.....ton 76.00 - —
light, bgs., dlvd. .....lb. .17 - —
Hydroxide gel, tech., min. 15% Al ($Al(OH)_3$), dms., 10,000 lbs. or more, f.o.b. ship't point....lb. .03 - .03½
ton lots, same basis.....lb. .03¼- .05½
smaller lots, same basis....lb. .03¾- .04
Aluminum hydroxide, gel., tech., 14-15% Al_2O_3, fib. dms., works..lb. .20¾- —
contract, works.....lb. .19¾- —
9-9½% Al_2O_3, fib. dms., works.lb. .17¾- —
contract, works.....lb. .16¾- —
dried, USP XII, fib. dms., works. lb. .78 - —
contract, works.....lb. .75 - —
powder, tech. (see Aluminum hydrate).
USP IX obls., dms.....lb. .15 - .17
Laurate, precip., bbls.....lb. .42 - —
Linoleate, solid, bbls.....lb. .52½- —
Metal, 98-99%, ingots, 10,000 lbs..lb. .15 - —
pigs, 10,000 lbs.....lb. .14 - —
Naphthenate, 1.7% Al, dms., wks.lb. .19 - —
Oleate, dms., contract.....lb. .43¾- —
Paste, lining, extra fine, dms....lb. .56 - .60
ink, dms.....lb. .71 - —
standard, dms.....lb. .38 - —
Powder, lining, extra fine, dms...lb. .93 - —
litho, dms.....lb. .62 - .64
standard, dms.....lb. .62 - —
rubber comp., dms.....lb. .47 - —
unpolished, stand., dms.....lb. .43 - .44
varnish, stand., dms.....lb. .47 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. drs., 1½c. per lb. for 50-lb. drs., 3c. per lb. for 10-lb. cans, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Aluminum resinate, precip., dms....lb. .20½- —
Stearate, dibasic, ctns., c.l.....lb. .47 - —
l.c.l.....lb. .48 - —
monobasic, ctns., c.l.....lb. .47 - —
l.c.l.....lb. .48 - —
tribasic, ctns., c.l.....lb. .52 - —
less ton quantities.....lb. .53 - .54
Sulphate, com'l, bgs., c.l., works, frt. equald..100 lbs. 1.15 - 1.30
l.c.l., same basis.....100 lbs 1.40 - 1.50
bbls., c.l., same basis....100 lbs. 1.55 - 1.60
l.c.l., same basis.....100 lbs. 1.95 - 2.00
iron-free, bgs., c.l., works..100 lbs. 1.95 - 2.25
l.c.l., works.....100 lbs 2.35 - 2.50
Trihydrate, heavy (see Aluminum hydrate).
Ambergris, gray, tins.....oz. 8.50 -12.00
Aminoazotoluene, bbls.....lb. .85 - —
Aminoethylpropanol, cns., dms., works. lb .50 - .60
Aminoethylethanolamine, tanks, works. lb. .50 - —
Aminopyrine, bots., dms.....lb. 5.50 - 5.60
Ammonia, anhydrous, fertilizer, tanks, works, frt. equald..ton.59.00 - —
pure, cyls., extra.....lb. .16 - —
refrigeration, tanks, works....ton.61.50 - —
Aqua, dms., c.l., works.....lb. .03 - .03¼
l.c.l., works.....lb. .03½- —
tanks, works (NH_3 content)....ton.65.00 - —
Ammoniac gum (see Gum, ammoniac).
Sal, gray, bbls., c.l., works..100 lbs. 7.00 - —
l.c.l., works.....100 lbs. 7.40 - —
white, gran., bbls., c.l., works.. 100 lbs. 4.75 - —
l.c.l., works.....100 lbs. 5.00 - —
Ammonium acetate, purified, dms...lb. .39 - .40
reagent, jars.....lb. .58 - .60
Benzoate, USP, dms., kgs., 4,000 lbs., frt. alld..lb. .43 - —
smaller lots, frt. alld.....lb. .44 - .47
Biborate, bbls., c.l., works.....ton.320.00 - —
ton lots, works.....ton.338.50 - —
less ton lots, works.....ton.343.50 - —
Bicarbonate, dms., works, c.l.....lb. .064 - .0975
Bichromate, bbls., works.....lb. .26 - .30
Bifluoride, bbls.....lb. .15 - .15½
Bromide, gran., NF, bbls.....lb. .36 - .37
dms.....lb. .37 - .40
powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, dms.....lb. .11 - .19
powdered, 1c. per lb. higher.
Chloride, tech. (see Ammoniac, sal).
USP, bbls., dms., kgs.....lb. .13 - .18
Citrate, dibasic, bbls.....lb. .75 - —
dms.....lb. .80 - .85
Fluoride (see Bifluoride).
Hydroxide (see Ammonia aqua).
Hypophosphite, NF, dms.....lb. 1.25 - 1.27
Iodide, NF, jars.....lb. 3.90 - 3.96
Linoleate, plastic, 80%, dms., works., lb. .40½- —
kgs., works.....lb. .42½- —
25%, dms., frt. alld. zone 1....lb. .21½- —
tech., bbls., works.....lb. .37 - —
dms., works.....lb. .39 - —
Molybdate, CP, cryst., kgs.....lb. 1.26 - 1.30
fine cryst., bbls., kgs.....lb. .84 - .87
purified, dms.....lb. 1.10 - 1.12
Nitrate, fertilizer grade, Canadian, 33.5% N, bgs., c.l., shipping point..ton.75.00 - —
dom., bgs., western works....ton.48.50 - —
Nitrate-dolomite, 20.5% N, bgs., Hopewell, Va..ton.37.50 - —
Oleate, dms.....lb. .14 - —
Oxalate, fine gran., bbls.....lb. .23 - —
dms.....lb. .25 - .29
Pentaborate, gran., bbls., c.l., works. ton.250.00 - —
ton lots, works.....ton.248.50 - —
less ton lots, works.....ton.253.50 - —
Ammonia pentaborate powder, $10 per ton higher.
Perchlorate, kgs.....lb. .23 - —
Persulphate, kgs.....lb. .25½- .28¼
Phosphate, dibasic, NF V, bbls., kgs. lb. .37 - .39
tech., bgs., c.l., works.....lb. .07 - —
l.c.l., works.....lb. .07½- —
Salicylate, NF, dms., kgs.....lb. 1.25 - —
Silicofluoride, bbls., works.....lb. .12½- —
Stearate, anhydrous, dms.....lb. .34 - —
paste, dms.....lb. .06½- —
Sulphamate bbls., dms., works....lb. .18 - .20
Sulphate, bulk, producing ovens...ton.35.00 -40.00
Sulphide, liquid, 40-45% basis, 100% dms., c.l., works..lb. .10 - —
l.c.l., works.....lb. .10½- —
tanks, dlvd. or frt. alld....lb. .08½- —
Sulphocyanate, pure, dms., jars...lb. .63 - .71
Sulphocyanide, tech., bbls.....lb. .17 - .19
Thiocyanate (see Ammonia sulphocyanide).
Thioglycolate, highly purified, 100% basis, bbls..lb. 7.10 - 8.25
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd..lb. .36½- —
l.c.l., dlvd.....lb. .31½- —
tanks, dlvd.....lb. .29 - —
ex pentane, dms., c.l., frt. alld. E. of Miss. R..lb. .24 - —
l.c.l., same basis.....lb. .25 - —
tanks, same basis.....lb. .23 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms.....lb. .90 - 1.00
Chloride, mixed, tech., dms., c.l., works..lb. .07 - —
l.c.l., works.....lb. .08 - —
tanks, works.....lb. .06 - —
Ether (see Ether, amyl).
Nitrite, USP, bots.....lb. 1.75 - 1.83
Mercaptan, dms., works.....lb. 1.10 - —
Salicylate, cns.....lb. .77 - .90
Stearate, dms., works.....lb. .42 - .45½
Anethol, com'l, dms., works.....lb. .50 - —
NF, dms.....lb. .60 - 1.40
Angelica root, dom. (atropurpurea), bls..lb. 1.10 - 1.15
imported, bls.....lb. 1.50 - 1.60
Angostura bark, bls.....lb. .55 - .60
Anilin oil, dms., c.l., works, frt. alld..lb. .14 - —
l.c.l., works, frt. alld.....lb. .15 - —
tanks, works, frt. alld.....lb. .13 - —
Salt, dms., works.....lb. .22 - .24
Anise, Argentine, bgs.....lb. .29 - .30
Chinese, Star.....lb. .14½- .15
Cyprus, bgs.....lb. .25 - .25½
Mexican, bgs.....lb. .25½ Nom.
Syrian, bgs.....lb. .23½- .24
Anisic aldehyde, bots., cns.....lb. 2.53 - 3.35
dms.....lb. 2.42 - 2.75
Annatto paste, bxs.....lb. .34 - .37
Seed, bgs.....lb. .19 - .20
Anthracene, 80-85%, bbls., works....lb. .60 - .86
90%, bbls., works.....lb. .81 - 1.00
Anthraquinone, 99.5%, bbls.....lb. .70 - —
Antimony butter (see Antimony chloride).
Chloride, solut., clys.....lb. .17 - —
Metal, bulk, c.l., mines.....lb. .33 - .33½
Needle, cs.....lb. No stocks
Oxide, ceramic grade, bgs., c.l., dlvd..lb. .27 - .27½
l.c.l., dlvd.....lb. .27½- .28½
paint grade, bgs., c.l., works....lb. .27½- .31
l.c.l., works.....lb. .28½- .32½
Salt, 65%, bgs., c.l., dlvd. E. of Miss. lb. No stocks
Sulphide, 65-70%, bbls., c.l., works.lb. .22 - —
l.c.l., works.....lb. .24 - —
Antipyrine, bbls.....lb. 2.35 - 2.45
Apomorphine, bots.....oz.23.20 -23.70
Archil extract, bbls.....lb. No stocks
Areca nuts, powd., bbls.....lb. .22 - .23
Arecoline hydrobromide, bots.....oz. 6.10 - 7.10
Antimony-potassium tartrate (see Tartar emetic)
Argols, min. 70%, bgs., shipments ports, 100 kilos (100% purity)..lb.32.00 -34.00
Arnica flowers, bls.....lb. 1.15 - 1.25
Arrowroot, powd., bgs., bbls.....lb. .16 - .17
Arsenic, metal, lump, bbls., c.l.....lb. No stocks
Metal, lump, bbls., c.l.....lb. No stocks
Sulphide, yellow, bbls.....lb. No stocks
Trioxide (see Acid, arsenous).
White, powd., bbls., c.l.....lb. .06½- —
l.c.l.....lb. .08 - .09
Asafetida, cs.....lb. .50 - .65
powd., bbls., dms.....lb. .72 - .77
Asbestine (see Talc, N. Y., fibrous).
Asbestos fiber, 5D and 5K, bgs., c.l. (20 tons), Can. mines..ton.75.00 - —
5R, bgs., c.l. (20 tons), same basis. ton.65.00 - —
6D, bgs., c.l. (30 tons), same basis. ton.48.50 - —
7D, bgs., c.l. (30 tons), same basis. ton.44.50 - —
7F, bgs., c.l. (30 tons), same basis. ton.42.00 - —
7K, bgs., c.l. (30 tons), same basis. ton.31.00 - —
7M, bgs., c.l. (30 tons), same basis. ton.27.50 - —
7R, bgs., c.l. (30 tons), same basis. ton.26.50 - —
7RF, bgs., c.l., same basis....ton.27.00 - —
7T, bgs., c.l., same basis.....ton.25.50 - —
7TF, bgs., c.l., same basis.....ton.27.00 - —

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CREAM OF TARTAR
CRESOL
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ETHYL ACETATE
HEXYLRESORCINOL
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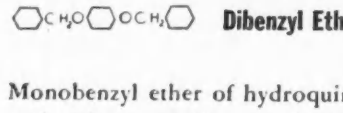
Asphaltum—Borage Flowers

Asphaltum, California, dms., c.l. ton 36.40 - —
l.c.l. ton 41.40 - —
Cuban, A, bulk, c.l. ton 60.00 - —
l.c.l. ton 90.00 - —
B, bulk, c.l. ton 38.50 - —
l.c.l. ton 55.00 - —
Gilsonite, brilliant black, selects 270°-295° F fus. pt., bgs., f.o.b. Colo. mines ton 36.50 - —
Seconds, 300°-320° F fusing point, not uniform, bgs., mines ton 29.00 - —
Jet, bgs., ton lots, gross weight, Colo. mines ton 29.00 - —
Manjak, No. 10, crude, dms., works, lb. 06½- —
process form, bgs., works lb. 05¾- 12
Mexican, refd., dms., f.o.b. Tampico, metric ton 27.50 - —
South American, refd., dms., c.l., N. J. refy. ton 22.00 -23.00
l.c.l., same basis ton 24.00 -25.00
tanks, same basis ton 15.00 - —
Atropine, bots. oz. 10.80 -12.00
Sulphate, bots. oz. 8.90 - 9.85

B

Balm of Gilead buds, bgs. lb 2.25 - 2.50
Barbasco root (see Cube root).
Barberry root bark, bgs. lb. 78 - 80
Barbital, dms. lb. 4.50 - —
Sodium, dms. lb 4.75 - —
Barium carbonate, precip., bgs., 10 tons and up, works ton 67.50 -75.00
small lots, works ton 74.50 -82.00
Chlorate, kgs., works lb. 25½- 31
Barium chloride, NF, cryst., dms. lb. .25 - .27
pure, bbls., kgs. lb. 10 - .12
tech., bgs., c.l., works ton 85.00 - —
l.c.l. works ton 95.00 - —
Dioxide, dms., c.l., works lb. 11½- —
l.c.l., works lb. 13 - —
Fluoride, bbls. lb. 14 - —
Hydrate, crystals, bgs. lb. 09 - 09½
Hydroxide bbls., works lb. 19 - —
Iodide, bots. lb. 5.12 - —
Monoxide (see Oxide)
Nitrate, bbls., c.l., works lb. 11½- —
l.c.l., works lb. 13 - —
Oxide, grd., dms., works lb. 11 - 11½
l.c.l., works lb. 12½- 13½
Peroxide (see Dioxide).
Silicofluoride, bbls. lb .17 - .19
Sicarate, cins., 1-ton up lb .51 - .52
smaller lots lb .53 - .54
Sulphate, tech (see Barytes and Blanc fixe).
X-ray, bbls. lb 10 - 10½
kgs. lb. 12½- —
Sulphide, dms., c.l., works ton 55.00 - —
l.c.l., works ton 70.00 - —
Baryte ore, approx. 94% $BaSO_4$, bulk, mines ton 9.40 -12.50
Barytes, water-grd., paper bgs., c.l., St. Louis ton 33.30 - —
l.c.l., same basis ton 35.10 - —
ex whse., N. Y. ton 46.25 - —
Southern off-color, bgs., mines ton 19.00 - —
95.75%, bgs., mines ton 20.00 - —
Bay leaves (see Laurel leaves)
Barberry bark, bgs. lb 12 - 13
Belladonna leaf, bls. lb 1.40 - 1.50
Root, bls lb 1.25 Nom.
Bauxite, bulk, mines ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works ton 11.00 - —
Benzaldehyde, NF, dms. lb. .68 - .90
tech., cbys., dms lb. .45 - .55
Benzene (see Benzol).
Hexachloride, tech., 11% gamma bgs., dms., c.l., works lb. 35¾- 42¼
l.c.l., works lb. 379 - .474
dust, dry, 50%, dealers, dms., c.l., works lb. 33 - —
l.c.l., works lb. 34 - .35
wet, 50%, dealers, dms., c.l., works lb. 34 - —
l.c.l., works lb. 35 - .36
Benzidin base, bbls. lb. .77 - —
Benzocaine, cns. lb. 3.50 - 3.85
Benzol (benzene), pure, nitration and 90%, dms. ret., works, gal. .24 - .26
tanks, E of Omaha, frt. alld. up to 2c. gal. 19 - .21
W Coast, Minnequa, Colo., same basis gal 19 - —
Benzophenone, dms. lb. 1.15 - 1.60
Benzoyl chloride, cbys. lb. 20 - 28
Peroxide, pure, fib. ctns., works lb. 90 - 1.05
Benzyl acetate, f.f.c., dms. lb. 60 - 1.60
dms lb. 60 - .70
Alcohol (see Alcohol, benzyl).
Benzoate, f.f.c., cns., dms lb 1.00 - 1.40
Chloride, refined, cbys. lb. .22 - —
tech., cbys., works, frt. equald lb 20½- —
Cinnamate, cns. lb. 3.65 - 4.00
Formate, cns. lb. 1.95 - 3.50
Propionate, bots. lb. 1.85 - 2.30
Salicylate, bots. lb. 1.80 - 2.25
Benzylidinacetone, bots. lb 1.85 - 2.70
Benzyliseugenol, bots. lb. 9.50 - —
Berberine bisulphate, cns. lb. No stocks
Hydrochloride, bots lb. No stocks
Sulphate, cns. lb. No stocks
Berberis root, bls. lb 80 - 85
Betagammapicolin, dms., c.l., works, lb 14½- —
l.c.l., works lb 25 - —
Betanaphthol, resublimed, dms., works lb 72 - .75
tech., bbls., c.l., works lb. .26 - —
l.c.l., works lb. .28 - .29
Benzoate, fib dms., works lb. 1.15 - —
Salicylate, dms. lb 5.00 - —
Betanaphthylamine, tech., bbls., works, lb 62 - —
Betapicolin, 90%, ret. dms., c.l., works, lb. 1.60 - —
l.c.l., works lb 1.85 - —
95%, dms., works lb 2.05 - —
98-99%, dms., works lb 2.20 - —
Bean root, bls lb 55 - 60
Bismuth chloride, jars lb. 4.50 - —
Citrate, USP VIII, jars lb. 3.12 - —
Hydroxide, dms. lb 4.00 - —
Metal, bxs., ton lots lb. 2.00 - —
Nitrate, cryst., cns. lb 1.60 - —
Oxychloride, cns. dms lb 3.80 - —
Oxide, anhydrous, dms lb. 4.20 - —
Subcarbonate, USP, dms lb. 2.60 - 2.63
Subgallate, NF, fib dms lb. 2.45 - 2.48
Subiodide, fib, dms lb. 3.13 - —
Subnitrate, USP, dms lb. 2.15 - 2.18
Subsalicylate, USP, dms lb. 3.05 - —
Sulphocarbolate, fib. dms lb 4.05 - —
Bismuth ammonium citrate, USP, powd., dms. lb. 3.70 - —
Black, acetylene, bgs., c.l., works lb. 12½- —
cs., l.c.l., ship. pt. lb. 16 - 18
Bone, bgs., bbls., l.c.l., dlvd. lb. 14½- 22½
Carload price is 1½c. per lb. under the above schedule, with deliveries to the Pacific Coast, ex dock or whse., 1½c. per lb. higher.
Carbon, channel, beads, bulk, c.l., works lb. .065 - —
bgs., c.l., works lb. .0682- —
l.c.l., works lb. 07 - —
dlvd. or whse lb. 10¾- .12
uncompressed, regular, bgs., c.l., works lb. 075 - —
bgs., ctns., l.c.l., dlvd. or whse lb. 12¾- —
furnace, HMF, bgs., c.l., works lb. 06 - —
ctns., l.c.l., whse lb. 09 - —
SRF, bgs., c.l., works lb. 035 - —
ctns., l.c.l., whse lb 075 - —
Charcoal (see C).
Graphite (see G).
Iron oxide, synthetic, bgs., c.l., works lb. 09¾- —
l.c.l., works lb. 10 - —
Lamp, bgs., c.l., works lb. 07 - .30
Mineral, bgs., l.c.l. ton 26.00 -31.00
Black ash (see Barium sulphide).
Black dyes (see Dyes).
Black haw root, bark, bls lb. .80 - .85
Tree bark, bls lb. 35 - .43
Black Indian hemp root, bls lb. 55 - .60
Blanc fixe, dry, by-product, bgs., c.l., works ton 72.50 - —
l.c.l., works ton 80.00 - —
direct process, bgs., c.l., works ton 85.00 - —
l.c.l., works ton 90.00 - —
N. Y. whse ton 108.00 -120.00
bbls., c.l., works ton 90.00 - —
l.c.l., works ton 95.00 - —
N. Y. whse ton 113.00 - —
pulp, 60%, bbls., c.l., works ton 55.00 - —
l.c.l., same basis ton 60.00 - —
Bleaching powder, dms., c.l., works 100 lbs. 3.75 - —
l.c.l., works 100 lbs. 4.25 - —
bbls., c.l., works 100 lbs. 3.50 - —
l.c.l., works 100 lbs. 4.00 - —
Blood, dried, 16-16½% ammo., bgs. unit ton 10.50 - —
high-grade, unground, 16-17% ammon., bulk, Chicago unit ton 10.75 - —
soluble, bgs., l.c.l. lb. .17 - .25
Bloodroot, bls. lb. .75 - .80
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. 1.90 - —
Toner, bbls., litho flushed, same basis lb. 1.10 - —
Celestial, bbls., same basis lb. .15 - .16
Chinese, bbls., same basis lb. .42 - —
Cobalt, genuine, bbls., same basis lb. 4.50 - —
Imitation (see Blue, ultramarine).
Copper-phthalocyanin, full strength, bbls., same basis lb. 3.75 - 3.85
80%, bbls., same basis lb. 3.00 - 3.40
Iron (see Blue, Chinese, Milori, Potash Prussian, and Soda).
Methyl violet toner, bbls., same basis lb. 4.20 - —
Milori, bbls., same basis lb. .42 - —
Peacock, fugitive, 100% color strength, same basis lb. .60 - .70
Permanent toner, green shade, molybdic, bbls., same basis lb. 3.75 - —
Tungstic lb. 4.00 - —
Potash, CP, bbls., same basis lb. .48 - —
Prussian bbls., same basis lb. .42 - —
soluble, bbls., same basis lb. .42 - —
Soda, CP, bronze, bbls., same basis, lb. .90 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .25 - .28
jobbing type, dry, bbls., same basis lb. .14 - .15
regular types, dry or pulp, bbls., same basis lb. .19 - .20
Victoria, toner, molybdic, bbls lb. 3.75 - —
Tungstic, bbls lb. 3.75 - —
Ink toner, bbls., same basis lb. 2.05 - 2.12
Violet toner, molybdic, bbls., same basis lb. 1.24 - —
Tungstic, kgs., same basis lb. 2.60 - 2.70
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.). Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.
Blue dyes are listed under Dyes.
Blueflag, root, bls. lb. No stocks
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls. lb. .11 - .12
Bone, raw, bulk, Chicago ton 75.00 - —
junk, bulk, same basis ton 50.00 -52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works ton 65.00 - —
Chicago, works ton 60.00 - —
steamed, feeding grade, 1% ammon., 60% phos., bgs., E. works ton 65.00 - —
Chicago, works ton 65.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works ton 60.00 - —
Chicago, works ton 60.00 - —
Phosphate, defluorinated (see D).
precipitated (see Calcium phosphate tribasic precip).
Boneset leaves, bls. lb. 17 - 18
Borage flowers, bls. lb. 25 - 26

Ethers of Hydroquinone



Monobenzyl Ether of Hydroquinone

Dibenzyl Ether of Hydroquinone

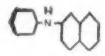
Monobenzyl ether of hydroquinone may be used as an antioxidant, stabilizer, or plasticizer in pharmaceuticals, paints, varnishes, and organic synthesis.

Dibenzyl ether of hydroquinone may be used as a high boiling solvent for perfumes, cosmetics, pharmaceuticals, plasticizers, paints, varnishes, and organic synthesis.

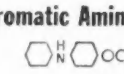
Good-rite CHEMICALS

Other organic chemicals

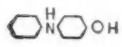
Secondary Aromatic Amines



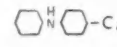
Phenyl B-Naphthylamine



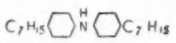
p-Isopropoxy Diphenylamine



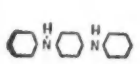
p-Hydroxy Diphenylamine



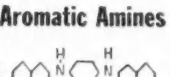
Mixed Mono and Diheptyl Diphenylamines



Di-secondary Aromatic Amines

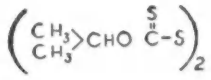


Diphenyl p-Phenylenediamine

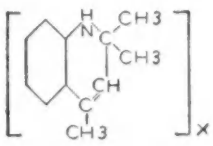


Di B-Naphthyl p-Phenylenediamine

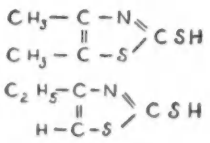
Miscellaneous



Di-Isopropyl Dixanthogen



Trimethyl Dihydro Quinoline Polymer



Mixed Ethyl and Dimethyl Mercaptothiazoles

N-Nitroso Diphenylamine

All materials listed here are available in commercial quantities. Prices and technical information are available on request. Please write Dept. CH-7, B. F. Goodrich Chemical Company, Rose Building, Cleveland 15, Ohio.

B. F. Goodrich Chemical Company A DIVISION OF THE B. F. GOODRICH COMPANY

GEON polyvinyl materials • HYCAR American rubber • KRISTON thermosetting resins • GOOD-RITE chemicals

Borax, tech., 99½%, cryst., paper bgs., c.l., works, frt. split..ton 74.50 - 76.00
ton lots, ex whse., N. Y. or Chi..ton 94.20 -94.50
less ton lots, same basis..ton 90.20 -90.50
bbls., c.l., works, frt. split..ton 94.50 - —
ton lots, ex whse., N. Y. or Chi..ton 114.20 -114.50
less ton lots, same basis..ton 110.20 -110.50
fine gran., bulk, works..ton 41.50 -47.50
paper bgs., c.l., works, frt. split..ton 48.50 - —
ton lots, ex whse., N. Y. or Chi..ton 68.20 -68.50
less ton lots, same basis..ton 73.20 -73.50
bbls., c.l., works, frt. split..ton 68.50 - —
ton lots, ex whse., N. Y. or Chi..ton 88.20 -88.50
less ton lots, same basis..ton 93.20 -93.50
powdered, paper bgs., c.l., works, frt. split..ton 53.50 - —
ton lots, ex whse., N. Y. or Chi..ton 73.20 -73.50
less ton lots, same basis..ton 78.20 -78.50
bbls., c.l., works, frt. split..ton 83.50 - —
ton lots, ex whse., N. Y. or Chi..ton 93.20 -93.50
less ton lots, same basis..ton 98.20 -98.50
Borax packed in kgs. is $40 per ton higher than borax packed in paper bags. USP $15 per ton higher.

Bordeaux mixture, bgs., c.l., whse., works, frt. alld..lb. .15 - .21
l.c.l., same basis..lb. .16 - .23

Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).

Brazilwood extract (see Hypernic).

Brimstone (see Sulphur).

Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., same basis..lb. .20 - —
single pkgs., same basis..lb. .28 - —
dms., lead-lined, c.l., dlvd..lb. .19 - —

Bromoform, USP, bots..lb. 1.50 - 1.70
clys..lb. 1.42 - —

Bromstyrol, bots..lb. 4.85 - 6.25

Bronze powder, aluminum (see Al).
Gold, litho., cans, dms., works..lb. .50 - .60
moulding, cans, dms., works..lb. .80 - 1.00
printing ink, cans, dms., works..lb. .95 - 1.10
radiator, cans, dms., works..lb. .60 - .65

Broomtop, bls..lb. .29 - .30

Brown, iron, synth., bgs., l.c.l., works..lb. .12 - .12½
Oxide, metallic, bgs., c.l., works..lb. .02¾- .03
Soap, crystals, works..lb. .12 - —
powdered..lb. .13 - —
Sienna, burnt, American, works, paper bgs., l.c.l..lb. .09½- .10¾
Italian type, bgs., works..lb. .10¾- .14
raw, American, bgs., l.c.l., works..lb. .05½- .10¾
Italian type, bbls., works..lb. .11¾- .12¾
Umber, burnt, American, c.l., bbls., works..lb. .05 - —
l.c.l., bgs., works..lb. .05½- —
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y..lb. .05½- —
l.c.l., works..lb. .05½- —
raw, American, bgs., same basis..lb. .05½- .05½
Turkey type, bgs., same basis..lb. .05½- .05½
Vandyke, bbls., works..lb. .10 - .11

Brucine, cns., 100 ozs..oz. .40 - .50
Sulphate, cns., 100 ozs..oz. .40 - .45

Bryonin, tool, bls..lb. .45 - .50
Buchu leaves, bls..lb. 1.00 - 1.05

Buckthorn bark, bls..lb. .34 - .35
cut and sifted, bbls..lb. .40 - .42
Berries, bgs..lb. 1.00 - 1.10

Burdock root, bls..lb. .25 - .30

Butane, indust., tanks, groups 3,... g.l. .05½- —

Butyl acetate, normal, ferment., l.t., ind., prod., dms., c.l., works, frt. alld. E. of Miss..lb. .06½- —
l.c.l., same basis..lb. .07½- —
tanks, same basis..lb. .05½- —
deliveries, same basis..lb. .05½- —
other production, dms., c.l., same basis..lb. .06½- —
l.c.l., same basis..lb. .07½- —
tanks, same basis..lb. .06½- —
synthetic, dms., c.l., same basis..lb. .18½- —
l.c.l., same basis..lb. .19 - —
tanks, same basis..lb. .17 - —
Normal butyl acetate, W. of Miss., ½c. per lb higher.
secondary, dms., c.l., dlvd. E. of Miss..lb. .14½- —
l.c.l., same basis..lb. .15 - —
tanks, same basis..lb. .13 - —

Alcohol (see Alcohol, butyl).

Aldehyde, dms., c.l., works..lb. .20½- —
l.c.l., works..lb. .21½- —
tanks, works..lb. .19½- —

Ether (see Ether, butyl).

Lactate, dms., c.l., frt. alld. E. of Rockies..lb. .46½- —
l.c.l., same basis..lb. .47½- —
tanks, same basis..lb. .45 - —
Laurate, dms., works..lb. .42 - —
Methacrylate, M-4, dms., works..lb. .60 - —
cns., works..lb. .63 - .67
P-4, cns., works..lb. .65 - —
Myristate, dms., works..No prices
Oleate, ref., dms., l.c.l., works..lb. .52 - —
Phenylacetate, dms..lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., dlvd..lb. No stocks
tanks, dlvd..lb. No stocks
Stearate, dms., c.l., frt. alld. E. of Rockies..lb. .53½- —
l.c.l., same basis..lb. .54½- —
Butyl-isobutyl methacrylate, P-55, 50/50, cns., works..lb. .60 - —

Butyric ether (see Ethyl butyrate).

C

Cadmium bromide, jars..lb. 1.60 - 1.91
Iodide, cns..lb. 4.80 - 4.90
Lithopone (see Yellow).
Metal, ingots or sticks, cs., dlvd..lb. 1.75 - 1.80
patent shapes, cs., dlvd..lb. 1.75 - 1.89
Selenite (see Red).
Sulphide (see Yellow).

Caffeine, cryst., dms., 100 lbs. or more..lb. 4.25 - 7.00
anhydrous, dms., 100 lbs. or more..lb. 4.50 - —
Citrated, dms., 100 lbs. or more..lb. 2.75 - —
Hydrobromide, bots..lb. 6.00 - —

Calabar beans, bgs., futures..lb. .65 - .66
Calamus root, dom., bls..lb. .35 - .40
bleached, imported, bls..lb. .70 - .80

Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1,000,000 USP units), works, gram. 4.00 - —
1,000 to 10,000 s.u., works, gram. 4.10 - —
less than 1,000 s.u., works, gram. 4.80 - —
In edible oil, dms., 10,000 or more..unit. .10 - —
1,000 to 10,000 s.u., works..unit. .11 - —
less than 1,000 s.u., works..unit. .12 - —

Calcium acetate, bgs., dlvd..100 lbs. 3.00 - 4.00
Arsenate, dealers, dms., c.l., whse., works, frt. alld..lb. 09½- —
l.c.l., same basis..lb. .10½- .11½
Bromide, NF, jars..lb. .75 - .85
Carbide, dms., c.l. works..ton 70.00 -90.00
delivered..ton 102.00 -109.00

Carbonate (see Chalk and Whiting).

Chloride, cryst., purified, bbls., tars, lb. .28 - .30
flake, 77-80%, paper bgs., c.l. works, frt. equald..ton 22.00 - —
l.c.l., same basis..ton 32.00 -61.00
liquor, works, basis 40%, tankcars, ton 9.00 - —
solid, 73-75%, dms., c.l., works, same basis..ton 20.00 - —
l.c.l., works, same basis..ton 30.00 -50.00

Cyanide, dms., dlvd. E. of Rockies..lb. .25 - .40

Gluconate, AA, bbls..lb. .65 - .72
cns..lb. .83 - .90
USP, bbls..lb. .58 - .65
cns..lb. .76 - .83

Hydride, dms., works..lb. .80 - —

Glycerophosphate, NF, lib. dms..lb. 1.65 - 1.80

Hypochlorite, 100-lb. dms., dlvd. E. of Rockies..lb. 21.00 -28.50
cans, cased (45 lbs.) same basis..cs. 19.75 -21.50

Iodide, jars..lb. 4.12 - —

Lactate, USP, dms..lb. .34 - .41

Laurate, bbls..lb. .43 - .44

Mandelate, USP, dms., works..lb. 2.35 - 2.60

Naphthenate, 5% Ca, dms..lb. .27 - —

Pantothenate, dex., jars..kilo 75.50 - —

Calcium phosphate, feeding grade, bgs., works..ton 75.50 - —
food grade, bbls., 10 or over, works..lb. .07 - .07¾
less than 10, works..lb. .08 - .10
medicinal, dibasic, bbls..lb. .13 - .18
monobasic, cryst., bgs., c.l., works, frt equald..lb. 6.50 - —
c.l., same basis..lb. 6.75 - —
tribasic, bbls., c.l. works..lb. 6.50 - 6.80
bgs., l.c.l., works..lb. 6.85 - 7.30

Phytate, bgs., works..lb. .22 - —

Resinate, precip., 6-8% Ca, dms., lb. .20 - —

Silicate, hydrated, bgs., c.l., works..lb. .05½- —
l.c.l., works..lb. .06 - —

Stearate, precip., cns., c.l., works..lb. .48 - —
l.c.l., works..lb. .49 - .50

Sulphate (see Gypsum).

Sulphide, 76%, bgs., c.l., works..ton 45.00 - —
70%, bgs., c.l., works..ton 50.00 - —
luminous tins, works..lb. 1.25 - —

Sulphoarsenate, bbls., dms..lb. .59 - .60

Calcium strontium sulphide, phosphorescent, dms., works..lb. 1.06 - 1.50
fine particle size, works..lb. 1.50 - 1.75

Calendula flowers, bls..lb. 1.05 - 1.05

Calomel, USP, cryst., dms..lb. 1.82 - 1.83
fine powd., dms..lb. 1.97 - 1.98

Camphor, monobromated, dms..lb. 3.20 - —

Camphor, natural..lb. No stocks.

Camphor, synthetic, tech., bbls., 2,000 lbs. or more, works..lb. .42 - —
10 bbls., 1,500 lbs. c.l..lb. .44½- —
smaller lots..lb. .45 - .55

USP, gran., powd., bbls., 2,000-lb lots..lb. .66 - —
1,000-lb. lots..lb. .67 - —
smaller lots..lb. .68 - —
bblets, tins, 2,000-lb. lots..lb. .83 - —
1,000-lb. lots..lb. .84 - —
smaller lots..lb. .85 - —

Canada balsam (see Fir balsam).
Cantharides, Chinese, cs..lb. 1.80 - 1.85
powd., bxs..lb. 2.05 - 2.10
Russian, bgs..lb. 7.00 - 7.25
powd., bxs..lb. 7.25 - 7.50

Capsicum (see Pepper, red).
Oleoresin, NF VIII, cns..lb. 6.50 - 6.75

Caramel coloring, bbls..gal. 1.25 - —

Caraway seed, Dutch, bgs..lb. .17 - .17½
Dutch, bgs..lb. .17 - .17½
futures, new crop, bgs..lb. .16½- .17¼

Carbazole 95%, dms., ton lots, works..lb. 1.10 - 1.30
smaller lots, works..lb. 1.20 - —

Carbon, butyl, norm., dms., l.c.l., works..lb. .42 - —
secondary, dms., l.c.l., works..lb. .50 - —
Isobutyl, dms., c.l., works..lb. .51 - —
l.c.l., works..lb. .52 - —
tanks, works..lb. .50 - —
Methylisobutyl, dms., c.l., frt. alld. E..lb. .14½- —
l.c.l., same basis..lb. .15 - —
tanks, same basis..lb. .12 - —

Carbon bisulphide, 50-gal. dms., c.l., works, frt. alld. to competitive points..lb. 05¾- —
l.c.l., same basis..lb. 06¾- —
5-gal. dms., c.l., same basis..lb. 07¾- —
l.c.l., same basis..lb. 08¾- —
Dioxide, cyls..lb. .06 - .08

Tetrachloride, CP, dms., c.l..lb. .11 - —
l.c.l..lb. 11½- —
tech., dms., zone 1, c.l., frt. alld..lb. .07 - —
l.c.l., frt. alld..lb. .07½- —
zone 2, c.l., frt. alld..lb. 07½- —
l.c.l., frt. alld..lb. 08½- —
zone 3, c.l., frt. alld..lb. .08 - —
l.c.l., frt. alld..lb. 08½- —
zone 4, c.l., frt. alld..lb. 07½- —
l.c.l., frt. alld..lb. .08 - —

ASPIRIN USP

RESORCIN USP Recrystallized

GLUCOSE 45° Bé

MAGNESIUM OXIDE Heavy

FORMIC ACID 90%

SODIUM SULPHIDE

TRICHLORETHYLENE

BLEACHING POWDER 70%

DIRECT BLACK

ANILINE OIL

SULPHUR BLACK

PHOSPHORIC ACID 85%

CHROME ORANGE, C.P.

ATABRINE TABLETS

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420 LEXINGTON AVENUE
NEW YORK 17, N. Y. Phone: LE 2-9740

Carbon Tetrachloride, USP—Codeine

Carbon tetrachloride, USP, clys....lb .17 - .19

Carbon tetrachloride sales zones are:—1, Conn, Del., Ill., Ind., Ia., Me., Mass., Md., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., O., Pa., R. I., Tenn., Va., W. Va., Wis., and river cities of Burlington, Ia., and Kansas City, Kans.; 2, Ala., Ark., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D.; 3, Colo., N. Mex., Tex., and Montana points E. of Billings; 4, Ariz., Cal., Idaho, Nev., Ore., Utah, Wash. and Montana points W. of Billings. Zone 4 prices are f.o.b. cars, L. A., Calif., S. F., Calif., Portland, Ore., and Seattle, Wash.

Cardamom fruit, bleached, bold, cs...lb 1.85 - 1.90
medium, cs.....lb 1.50 - 1.55
decorticated, Guatemalan, cs....lb 1.00 - 1.05
Indian, cs.....lb 1.15 - 1.20
green, Alleppey, bgs.....lb 1.15 - 1.20
Seed (see Cardamom fruit, decortic-ded)

Carotene, crystl., research grade thin works, gram 5.00 - —
in vegetable oil, alpha, 10%, beta, 20%) smps., 100 grams, dlvd gram 2.85 - —
50 grams, dlvd.....gram 2.90 - —
tech., tins works.....lb 67½ - —
diluted, dry powd., 3,330 A units per gm., bots., works..lb .70 - —
vegetable oil, 250,000 A units per gm., bots., works..lb 37.80 - —
50,000 A units per gm., bots., works..lb 7.87 - —
3,330 A units per gm., bots., works..lb .85 - —

Carvol, bots.....lb 13.00 -16.00
Cascara sagrada bark, bulk.....lb .40 .43

Case-hardening mixture, 50% gran., dms., l.c.l.....lb 09¾ - —
slabs, dms., l.c.l.....lb 08¾ - —

Casein, dom., acid-precip., bgs., 10,000 lbs. or more, solu't point...lb .33 - .35
rennet-precip., 10,000 lbs or more same basis..lb .34 Nom.
imp., acid-precip., ground, bgs., 100 lgs. or more..lb .31½ - .33½
rennet precip., unground, 100 lgs. or more lb .36 Nom.
smaller lots.....lb .37 Nom.

Cassia bark, Batavia, No. 1, short-stick, bls lb .60 Nom.
broken, bls.....lb .18 - 18½
thinquill, bls.....lb .60 Nom.
China, rolls, select, cs.....lb 11½ - .12
broken, bls.....lb 08¾ - 08¾
Kwangsi, broken, bls.....lb .12 - .12½
Saigon, broken, bls.....lb .38 Nom.
medium, bls.....lb .41 - .42
thin, bls.....lb .44 - .44½
Yunnan, bls.....lb .13½ - 13¾
Buds, China, bgs.....lb .22½ - .24
Cassia fistula, bskts.....lb .26 - .28
Castor beans, bgs., Brazilian bolts., long ton 175.00 Nom.

Oil (see Oil, castor).

Pomace, bgs., c.l., works.....ton 40.00 - —
Castoreum, nat., cns.....lb 30.00 - —
Catechol, CP, crystl., works, fib. dms.lb 2.40 - —
resublimed, works, dms.....lb 3.25 - —
Catnep, bls.....lb .68 - .70
Celery seed, French, bgs.....lb .31 - .32
Indian, bgs.....lb .23½ - .24
futures, bgs.....lb .23 - .23½

Celluloid scrap (see Pyroxylin scrap).

Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb .36 - —
granules, ctns., same basis.....lb .42 - —
molding composition, plain colors, pearls, special black, dms., c.l., frt. alld..lb .47 - —
l.c.l., same basis.....lb .49 - .64
regular black, dms., l.c.l., same basis..lb .35 - .39
variegations, dms., l.c.l., same basis..lb .54 - .59
Acetate-butyrate, flake, 17% butyryl content, ctns., 500 lbs. and over, works..lb .52 - —
less than 500 lbs., works..lb .53 - —
17.5% butyryl content, ctns., 500 lbs. and over, works..lb .49 - —
less than 500 lbs., works..lb .50 - —
20.5% butyryl content, ctns., 500 lbs. and over, works..lb .53 - —
less than 500 lbs., works..lb .54 - —
gran., 37% butyryl content, ctns., 500 lbs. and over, works, lb .51 - .57
less than 500 lbs., works..lb .52 - .58
48% butyryl content, ctns., 500 lbs. and over, works..lb .57 - —
less than 500 lbs., works..lb .58 - —
molding composition, plain colors, pearls, special black, dms., l.c.l., frt. alld..lb .56 - .61
regular black, dms., l.c.l., same basis..lb .47 - .51
variegations, dms., l.c.l., same basis..lb .61 - .66
Triacetate, flake, ctns., works, frt. alld. on 100 lbs or more..lb .40 -

Cerium hydrate, dms., works.....lb 1.25 - —
Oxalate, NF, bbls., kgs., works..lb .70 - .72
Oxide, optical grade, bgs., under 100 lbs., works..lb 2.25 - —
kgs., 100-lb. lots, works.....lb 1.75 - —
Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l., works..lb .02¾ - 05¼
l.c.l., ex whse.....lb .04 - —
paint, bgs., c.l., works.....ton 40.00 - —
papermakers, bgs., c.l., works.ton 32.50 -40.00
rubber makers, bgs., c.l., works.. ton 30.00 - —
Chamomile, Hungarian type, cs....lb .65 - .70
Roman, bls., futures.....lb 1.50 - 1.75
Charcoal, hardwood, briquets, bulk, c.l., works..ton 49.50 - —
bgs., c.l., works.....ton 54.50 -55.50
granular, bgs., incl., c.l., works, ton 50.50 - —
lump, bulk, c.l., works.....ton 39.50 -43.50
bgs., extra, returnable, c.l., works..ton 42.50 -45.50
screenings, bgs., works.....ton 33.50 - —
Pinewood, gran., powd., bgs., c.l., works, South..ton 40.00 - —
l.c.l., works.....ton 50.00 -60.00
lump, bgs., c.l., works, South..ton 35.00 - —
Willow, powd., bbls.....lb .06 - .07
Chestnut extract, powd., 65% tannin, bgs., extra, c.l., works..lb .1040- —
l.c.l., works.....lb .1115- —
solid, 25% tannin, bbls., c.l., works, lb .0435- —
l.c.l., works.....lb .0460- —
tanks, works.....lb .0375- —
China clay, dom., dry-grd., air-float, 99.25% 200 mesh, bgs., c.l., works..ton 12.50 -13.00
l.c.l., works.....ton 13.50 -14.00
bulk, c.l., works.....ton 9.50 -10.00
90% 200 mesh, bgs., c.l., works..ton 10.00 -12.00
l.c.l., works.....ton 11.00 -16.00
wet-grd., silk-bolt, 99½% 325 mesh, bulk, c.l., works..ton 13.00 - —
paper bgs., c.l., works..ton 15.00 - —
imported, white lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila..net ton 16.00 -35.00
powd., bgs., c.l., ex dock.....ton 45.00 - —
l.c.l., ex whse.....ton 50.00 -55.00
Chloral, dms., works.....lb .45 - .50
Hydrate, jars.....lb .93 - .98
Chlordane, agricultural, dms., c.l., frt. alld..lb 1.50 - —
l.c.l., frt. alld.....lb 1.55 - 1.70
refined, dms., c.l., frt. alld.....lb 1.65 - —
l.c.l., frt. alld.....lb 1.70 - 1.85
technical, cns., c.l., works.....lb 1.55 - —
l.c.l., works.....lb 1.60 - 1.80
Chlorinated rubber, standard, ctns., 100 lbs. up, works..lb .40 - —
smaller lots, works.....lb .43 - —
Chlorine, liquid, cyls., c.l., works..lb .07 - .12
l.c.l., stock points.....lb .09 - .15¼
tanks, single units, works, frt. equald..100 lbs. 2.25 - —
multiple units, 3 cars, works, frt. equald..100 lbs. 2.55 - —
2 cars, same basis....100 lbs. 3.15 - —
1 car, same basis.....100 lbs. 3.75 - —
Chloroform, tech., dms.....lb .20 - .23
USP, dms.....lb .30 - .33
Chlorophyllin (Red KB base), bbls..lb 1.38 - —
Chloropicrin, com'l, bots., ex whse..lb 1.25 - —
cyls., 180-lbs., works, frt. alld..lb .40 - —
100-lbs., same basis.....lb .82 - —
25-lbs., ex whse.....lb 1.00 - —
Choline chloride, fib dms., works..lb 3.00 - 3.10
feed grade, fib. dms., works..lb 2.00 - —
Dihydrogen citrate, fib. dms., works, lb 3.00 - 3.10
Chromic acetate, powd., 72% Cr., bbls., works..lb No stocks
solut., 7½%, bbls., cs.....lb 09¾ - —
8½%, bbls., cs.....lb 09¾ - —
Cake, bulk, c.l., works.....ton 16.00 - —
Fluoride, bbls., works.....lb .24 - .27
Green (see Green, chromic).
Oxide (see Green, chrome oxide)
Trioxide (see Acid, chromic).
Yellow (see Yellow, chromic).
Chrysarobin, bots.....lb 6.62 - 8.60
Cinchona bark, USP, red, quill, 30 in., cs..lb 1.26 Nom.
yellow, broken, bgs.....lb .35 - .40
Cinchonidine, small crystl., cns., 100 ozs., oz 1.02½ - —
Cinchonine, large crystl., cns. 100 ozs., oz. 70½ - —
small crystl., cns., 100 ozs.....oz. 70½ - —
Sulphate, NF, cns., 100 ozs.....oz 55½ - —
Cinchophen, NF, heavy, dms., works, lb 4.20 - 4.50
standard, dms., works.....lb 4.00 - 4.10
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, clys., cns., dms.....lb .82 - 1.25
Cinnamon, Ceylon, No. 2, bls.....lb .35 - .36
due soon.....lb .33½ - .34
Citral, bots., cns.....lb 3.90 - 5.00
Citronellal, bots., dms.....lb 2.75 - —
Citronellol, bots., dms.....lb 3.85 - 4.75
Cloves, Madagascar, bls.....lb .14 - .14½
futures, bls.....lb .12 - .12½
Zanzibar, bls.....lb .16½ - .17
Clover tops, red, dom., bgs.....lb .65 - .70
imported, bgs.....lb No stocks
Coal tar, coal-gas, water-gas, crude, dms., c.l., works..dm 10.60 - —
l.c.l., works.....dm 11.10 - —
tanks, works.....gal .14 - —
refd., bbls., c.l., works.....bbl 11.10 - —
l.c.l., works.....bbl 11.60 - —
tanks, works.....gal .15 - —
Cobalt acetate, bbls., kgs., dlvd..lb 83¾ - —
Carbonate, powd., bgs., works....lb 1.58 - —
feed, grade, 49½% Co, kgs.....lb 1.58 - —
Chloride, kgs., works.....lb 87½ - —
feed grade, 24.5% Co, kgs.....lb 1.25 - —
Hydrate, bbls.....lb 2.01 - —
feed grade, 62% Co, kgs.....lb 2.01 - —
Linoleate, paste, 6% Co, dms....lb .46½ - —
solid 8½% Co, dms.....lb 63½ - —
8% Co, dms.....lb 65½ - —
Naphthenate, solid, 6% Co, dms..lb 35½ - —
Nitrate, feed grade, 20.4% Co, bbls, lb 75¾ - —
Oleate, bbls.....lb .44 Nom.
Oxide, black, kgs.....lb 1.27½ - 1.80
Phosphate feed grade, 31% Co, kgs, lb 1.26½ - —
Resinate, precip., 7.5% Co, dms...lb 38½ - —
Sulphate, dms.....lb .65 - —
feed grade, 21% Co kgs.....lb 1.00 - —
Cobalt salts, feed grade quotations are f.o.b. Phila., Cleve. or N. Y.
Cobalt-ammonium sulphate, 14% Co, kgs..lb .75 - —
Cocaine hydrochloride, cns., 100-oz. lots..oz. 9.75 - —
Cochineal, gray, bgs.....lb .67 - .68
silver, Teneriffe, bgs.....lb .69 - .70
Cocoa butter, bgs.....lb 1.30 Nom.
Cocillana bark, bgs.....lb .35 - .40
Codeine, cns., 100 ozs.....oz 12.25 - —
Hydrochloride, crs., 100 ozs.....oz 11.85 - —
Phosphate, cns., 100 ozs.....oz 10.25 - —
Sulphate, cns., 100 ozs.....oz 10.75 - —

Complete integration of its manufacturing facilities plus economical water borne supply of its own principal raw materials, make *Pittsburgh* Coke & Chemical Company a reliable source of supply for Coal Chemicals and associated products. Inquiries for any of the products listed below are invited and, for special applications, technical assistance and recommendations are available for the asking.

Codliver oil (see Oil, codliver).
Cohosh black, root, bls.....lb. .18 - .19
Blue, bls.....lb. .21 - .23
Colchicum seed, bgs.....lb. 4.00 Nom.
Colchicine, bulk, ens.....oz. No stocks
Collodion, USP, dms.....lb. .24 - .29
Flexible, USP, dms.....lb. .25½- .30½
Colocynth pulp, bls.....lb. .50 - .52
Columbo root, bls.....lb. .16 - .17
Coltsfoot leaves, bgs.....lb. .43 - .44
Confurango bark, bgs., futures....lb. .23 - .24
Copaiba balsam, ens., dms.....lb. .70 - .75
Copper acetate, cuprie, bbls., works lb. .28 - —
smaller containers, works....lb. .29 - .30
Carbonate, 52-54%, bbls.....lb. .24 - .26
Chloride, anhyd., bbls.....lb. .26½- —
crystals, bbls.....lb. .17¾- —
Cyanide, tech., bbls.....lb. .40½- —
Hydrate, dms., del. E. Miss.....lb. .26¼- .26¾
Metal, electrolytic .....lb. .21½- —
Naphthenate, liquid, 8% Cu, dms., dlvd..lb. .23 - —
solid, 11% Cu, dms., dlvd.....lb. .27½- —
Nitrate, tech., cryst., bbls., works, lb. .25 - .28
Oleate, solid precip., Cu 10%, bbls.lb. .45½- —
Oxide, black, bbls., works.....lb. .28 - .30
red, cuprl, bbls., works.....lb. .30 - .32½
Oxychloride-sulphate, bgs.....lb. .24 - —
Resinate, precip., 8.5% Cu, dms..lb. .21½- —
Stearate, bgs., works.....lb. .30½- —
Sulphate, cryst., 99%, bgs., c.l. works..100 lbs. 7.60 - —
l.c.l. .....100 lbs. 7.85 - 8.00
monohydrated, 35%, dms., c.l., dlvd. 100 lbs.12.55 -12.80
l.c.l., dlvd.....100 lbs.13.55 - —
tribasic, dealers, bgs., works, c.l. lb. .21½- .22½
l.c.l., works.....lb. .23 - .23½
Copperas, cryst., gran., bgs., c.l., works..ton.17.00 - —
l.c.l., works.....100 lbs. 1.55 - 2.00
bbls., c.l., works.....ton.20.00 - —
bulk, c.l., works.....ton.14.00 - —
Copra, c.i.f., Pacific portss.....ton.31000 Nom.
Atlantic or Gulf ports.....ton.316.00 Nom.
Coriander seed, Argentine, bgs, futures, lb. .08 - .08½
Indian, bgs. .....lb. No stocks
Italian, bgs.....lb. .08½- .09
Moroccan, bgs., futures.....lb. .09 - .09½
Corn sugar, tinners, chipped, paper bgs., c.l., 60,000 lbs. min..100 lbs. 6.03 - —
bbls., c.l., same basis..163 lbs. 6.98 - —
Syrup, 42°, bbls., c.l.....100 lbs. 7.29 - —
l.c.l. .....100 lbs. 7.44 - —
Cornsilk, bls. ..... lb. .29 - .30
Corrosive sublimate, NF, cryst., dms., 50 lbs. or more..lb. 1.08 - —
gran., powd., dms., 50 lbs. or more..lb. 1.53 - —
Cottonseed bark, bls.....lb. .40 - .45
Cottonseed hull ash, 32-36% potash, bgs., dlvd..unit-ton. 1.50 Nom.
Meal, 41% protein sacked, c.l. mills, S. E..ton.91.00 -95.00
Coumarin, ens., 25 lbs .....lb. 2.75 - 3.25
smaller lots .....lb. 2.90 - 3.30
Cramp bark, NF, bls.....lb. .80 - .85
Cream of tartar, dom., USP, gran. or powd., bbls., 5,060 lbs. one shipt..lb. .38½- —
bbls., kgs., smaller lots....lb. .39 - .39½
Creosote, beechwood, bots., cbys....lb. 1.05 - 1.10
Cashur (see Cresol).
Hardwood, N. F., bots., cbys.....lb. .80 - .85
Oil, dms.....gal. .31 - .32
Carbonate, bots., cbys.....lb. 2.30 - 2.40
Oil, coaltar, crude, tanks, works..gal. .19½- .20½
refined, dms., c.l., works.....gal. .38½- —
l.c.l., same basis.....gal. .39 - —
tanks, same basis.....gal. .25 - —
solution, 50% tanks, works..gal. .18 - .20
Cresol, tech., dms., c.l., works, frt. equald..lb. .14½- .15½
l.c.l., same basis.....lb. .15½- .17
tanks, same basis.....lb. .11 - .12
USP, dms., c.l., same basis.....lb. .14½- .15½
l.c.l., same basis.....lb. .15½- .17
tanks, same basis.....lb. .14½- .16½
Crotonaldehyde 91-95% dms., 55 and 110 gals., l.c.l., works..lb. .16½- .17
5 and 10-gals., l.c.l., works....lb. .22 - —
Cryolite, nat., dealers, bgs., bbls., c.l. works..100 lbs.12.75 - —
bbls., l.c.l., works.....100 lbs.14.00 - —
Cube root, 5% rotenone, bbls., works.lb. .48 - —
4% rotenone, bbls., works.....lb. .38 - —
Cubeb berries, XX, bgs.....lb. .70 - .75
powd., bls. .....lb. .85 - .90
Culvers root, bbls.....lb. .60 - .65
Cumin seed, Cyprian, bgs.....lb. No stocks
Indian, bgs, futures.....lb. .40 - .41
Italian, bgs. .....lb. .08½- .09
Moroccan, bgs. ..... lb. No stocks
Persian, bgs. .....lb. .25 - .25½
Syrian, bgs.....lb. .24½- .25
Cutch, 45% tannin, bgs., ex dock...lb. .12 Nom.
Cyanamide, fertilizer mixing grades, 20.6% N., gran., bulk, Niagara Falls, Ont., contracts, bulk, unit-ton. 2.35 - —
pulv., 21% N., bgs., same basis, unit-ton. 2.25 - —
Cyclohexane, tech., dms., c.l., works.lb. .09½- —
l.c.l., works.....lb. .10 - —
tanks, works.....lb. .08 - —
Cyclohexanol, tech., dms., c.l., works.lb. .21½- —
l.c.l., works .....lb. .22 - —
tanks, works .....lb. .20 - —
Cyclohexanone, tech., dms., c.l., works, lb. .24½- .30
l.c.l., works.....lb. .27 - .31
tanks, works.....lb. .25 - .29
Cyclohexylamine, dms., works.....lb. .32 - —
Cyclopropane, USP, cyls., dlvd...gal. .27 - —

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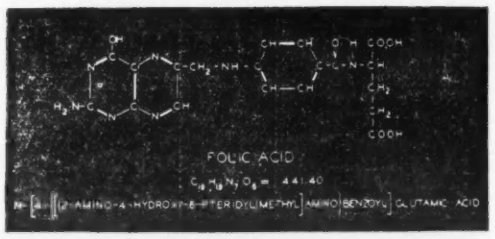
Damiana leaves, bls.....lb. .85 - .90
Dandelion root, bls.....lb. .67 - —
DDT, fiber, dms., c.l., works.....lb. .37½- —
ton lots, works.....lb. .40 - —
tins, smaller lots, works.....lb. .45 - .47
Decanol, normal, tech., dms., dlvd..lb. .35 - —
Deerstongue leaves, bls.....lb. .35 - .40
Deflorinated phosphate, 65% b.p.l., paper bgs., Columbus, Ga..ton.39.25 - —
Texarkana, Ark.....ton.41.00 - —
Tupelo, Miss.....ton.39.25 - —
Wales, Tenn.....ton.39.25 - —
Rock, paper bgs., works.....ton.34.25 - —
Degras, common, bbls.....lb. .10 - .12
Neutral, less 2% ffa., bbls.....lb. .20 - .21
over 2% ffa., bbls.....lb. .19 - .20
Derris root (see Cube root)
Dextrin, British gum, bgs., c.l..100 lbs. 8.50 - —
Chicago .....100 lbs. 8.05 - —
l.c.l. .....100 lbs. 8.74 - —
Corn, Canary, bgs., c.l.....100 lbs. 8.33 - —
Chicago .....100 lbs. 7.74 - —
l.c.l. .....100 lbs. 8.48 - —
Pink, bgs., c.l.....100 lbs. 8.43 - —
Chicago .....100 lbs. 7.80 - —
l.c.l. .....100 lbs. 8.58 - —
white, bgs., c.l.....100 lbs. 8.18 - —
Chicago .....100 lbs. 7.04 - —
l.c.l. .....100 lbs. 8.33 - —
Above prices are for dextrin in paper bgs.; cotton bgs., 17c. higher.
Potato, dom., bgs.....lb. .14 - .16½

Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots.....lb. 5.20 - 5.55
laboratory grade, bots....100 grams. 4.50 - —
tech., bots., works.....lb. 3.00 - —
Diamyl ether (see Ether, amyl).
Phthalate, dms., tanks.....lb. No prices
Dianisidin, dms. .....lb. 1.54 - —
Diatomaceous earth, dom., bgs., c.l., Atlantic coast..ton.50.00 -52.00
California .....ton.38.00 -40.00
l.c.l., ex whse.....ton.80.00 - —
purified, bgs., c.l., Atlantic coast. ton.62.00 - —
California .....ton.50.00 - —
l.c.l., ex whse.....ton.90.00 - —
Imported, Algerian, bgs., c.l., Atlantic coast. ton. No prices
Mexican, white, bgs., c.l., Atlantic coast..lb. .03 - —
l.c.l., Atlantic coast.....lb. .06 - —
Dibutyl phthalate, dms., c.l.....lb. .37¼- .38½
l.c.l. .....lb. .38 - .39
tanks .....lb. .36 - .37
Selacate, dms., c.l., works .....lb. .78¾- —
l.c.l., works .....lb. .79¼- —
tanks, works .....lb. .77¾- —
Tartrate, dms., wks., frt. allo....lb. .92 - 1.02
Dibutylamine, dms., c.l., works....lb. .52½- —
l.c.l., works.....lb. .53½- —
tanks, works.....lb. .50 - —
Dichloroanilin, dms., works.....lb. .65 - —
Dichlorodiphenyldichloroethane, dms., c.l., works..lb. .42½- —
ton lots, works.....lb. .45 - —
tins, small lots, works.....lb. .48 - .50
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichlorophenol, dms., frt. equald....lb. .26 - —
Dicyclohexylamine, dms., works....lb. .38 - —
Dicyclohexylphthalate, fib. dms., c.l., works. lb. .42½- —
l.c.l., same basis.....lb. .43 - —
Diethanolamine, dms., c.l., frt. alld. E..lb. .25 - —
l.c.l., same basis.....lb. .26 - —
smaller containers, same basis....lb. .29 - —
tanks, same basis .....lb. .23½- —
Diethyl carbonate, dms., l.c.l.....lb. .46½- —
Oxalate, dms., c.l.....lb. .35½- —
l.c.l. .....lb. .36½- —
tanks .....lb. .34 - —
Phthalate, dms., c.l., frt. equald..lb. .31½- .33½
dms., l.c.l., frt. equald.....lb. .32 - .34
tanks, frt. equald.....lb. .30 - .32
Sulphate, dms., c.l., works.....lb. .14 - —
l.c.l., works .....lb. .15 - —
tanks, works .....lb. .13 - —
Diethylamine, dms., c.l., works....lb. .69 - —
l.c.l., works .....lb. .71 - —
tanks, works .....lb. .65 - —
Diethylaminoethanol, dms., l.c.l., works, frt. alld. E. of Miss....lb. .75 - —
Diethylaniline dms. .....lb. .48 - —
Diethyleneglycol, dms., c.l., frt. alld. E..lb. .15 - —
l.c.l., same basis.....lb. .16 - —
tanks, same basis.....lb. .13½- —
Diethylether dms works.....lb. .40 - —
Monobutylether, dms., c.l., works, lb. .22 - —
l.c.l., works .....lb. .23 - —
tanks, works .....lb. .21 - —
Diethyleneglycol monobutylether acetate, dms., c.l., works..lb. .27½- —
l.c.l., works.....lb. .28½- —
tanks, works .....lb. .26½- —
Monoethylether, dms., c.l., works. lb. .17 - —
l.c.l., works .....lb. .18 - —
tanks, works .....lb. .16 - —
Monoethylether acetate, dms., c.l., works..lb. .25½- —
l.c.l., works .....lb. .26½- —
Monomethylether, dms., c.l., works. lb. .21½- —
l.c.l. .....lb. .22½- —
tanks .....lb. .20½- —
Monomethylether acetate, dms., c.l., works..lb. .21½- —
l.c.l., works .....lb. .22½- —
Diethylenetriamine, tanks, works..lb. .50 - —
Diethylstilbestrol, bots. .....kilo. 330.00 - —
Digitalin, cryst., bots.....gram. 18.00 -19.00
powd., bots. .....gram. 1.25 - 1.75
Digitalis leaves, dms.....lb. 1.05 - 1.15
Diglycol laurate, dms.....lb. .33 - —
Oleate, light, bbls., c.l.....lb. .33 - —
Stearate, bbls., c.l.....lb. .40 - —
Dihydroxydichlorodiphenylmethane, dms..lb. .95 - 1.00
smaller containers .....lb. 1.05 - 1.40
Di-isobutyl ketone, dms., works....lb. .19 - —
Di-isobutylene, dms., c.l., works....lb. .07 - —
l.c.l., works .....lb. .07½- —
tanks, works .....lb. .05½- —
Dillseed, decorticated, bgs.....lb. .16 Nom.
dewhiskered, bgs. .....lb. .12 - .12½

NEW MEMBER OF B COMPLEX NOW AVAILABLE • FOLIC ACID

(pteroylglutamic acid)



FOLIC ACID, the most recent member of the Vitamin B Complex to be synthesized, is now available for general distribution. Folic Acid has a wide range of application in anemia therapy and has been demonstrated to produce dramatic results in a number of macrocytic anemias, including sprue, gestational macrocytic anemia, macrocytic anemia of gastrointestinal origin, and the macrocytic anemias associated with pellagra and similar deficiency states. Folic Acid is effective either by oral or parenteral administration and is especially recommended for those patients exhibiting sensitivity to liver extract. Because anemias are generally considered to be dietary deficiencies, it is natural to combine folic acid with other members of the B complex in vitamin preparations.

Represented in Canada by Calco Chemical Division
North American Cyanamid, Limited
P. O. Box 10, St. Lambert, Montreal 23, P. Q.
Royal Bank Bldg., Toronto 1, Ontario

CALCO's Bulk Pharmaceuticals*

Sulfadiazine U.S.P.
(powder and micro crystal
. . . the Sulfa drug of choice)
Sodium Sulfadiazine U.S.P.
Sulfamerazine U.S.P.
(powder and micro crystal)
Sodium Sulfamerazine U.S.P.
Sulfanilamide U.S.P.
(powder, crystal and micro crystal)
Sulfathiazole U.S.P.
(powder, crystal and micro crystal)
Sodium Sulfathiazole U.S.P.
Sulfapyridine N.F.
Sodium Sulfapyridine
Aminoacetic Acid N.F.
Calcium Pantothenate (Dextro)
Choline Chloride
Choline Dihydrogen Citrate
Cinchophen N.F.
(and Sodium Salt)
Folic Acid
Neocinchophen U.S.P.
Mandelic Acid N.F.
Calcium Mandelate U.S.P.
Menadione U.S.P.
Methylene Blue U.S.P.
(powder and crystal)
Nicotinic Acid U.S.P.
Nicotinamide U.S.P.
Nicotinamide HCl.
Saligenin
Propylthiouracil
Phenothiazine N.F.
(Regular and Drench grades for Veterinary use)
Certified Colors for Pharmaceutical and Cosmetic Use

*In keeping with long-established policy, the above products are offered to ethical Pharmaceutical and Veterinary Manufacturers only.

Pharmaceutical Department
Calco
REG. U.S. PAT. OFF.
CALCO CHEMICAL DIVISION
AMERICAN CYANAMID COMPANY
Bound Brook, New Jersey

Dimethyl Phthalate—Ethylenediamine

Dimethyl phthalate, dms., c.l., dlvd. lb. 24½ - —
l.c.l., dlvd. lb. 25½ - —
tanks, dlvd lb. 23½ - —
Sebacate, dms., c.l., works lb. 31½ - —
l.c.l., works lb. 32 - —
tanks, works lb. 30 - —
Sulphate, ref. 55-gal. dms., c.l., works lb. 15 - —
l.c.l., works lb. .16 - —
ref. 10-gal. dms., works lb. 16½ - —
Dimethylamine, anhyd., cyl., works, basis 100% lb. 38½ - 48½
25%-40%, dms., c.l., works, basis 100% lb. .38 - —
l.c.l., works, basis 100% lb. 38½ - —
tanks, works, basis 100% lb. .33 - —
Dimethylaniln, dms., c.l. lb. .21 - 24½
l.c.l. lb. .22 - —
Dinitrotoluin, dms., frt. equald lb. .50 - —
Dinitrobenzene, bbls. lb. .16 - —
Dinitrochlorobenzene, dms. lb. .14 - 15½
Dinitronaphthalene, kgs lb. .35 - .38
Dinitrophenol, bbls. lb. .22 - —
Dinitrotoluene, oily, dms. lb. .07 - 07¾
refd., dms. lb. .18 - —
Dinonylnaphthalene, tanks, works lb. .15 - —
Dioctyl phthalate, dms., c.l., frt. alld. lb. .423 - —
l.c.l., frt. alld. lb. .433 - —
tanks, frt. alld. lb. .408 - —
Diorthotolylguanidin, dms., ton lots, dlvd. lb. .44 - .47
smaller lots, dlvd. lb. .46 - .47
Dioxan, dms., c.l., frt. alld. lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .19 - —
Dip oil (see Tar acid oil).
Dipentene, dest.-dist., dms., incl., c.l., works, South. gal. .45 - .51
l.c.l., same basis gal. .46 - .54
N. Y. whse. gal. .60 - —
Dipentene, steam-dist., dms., c.l., whse., NYC lb. .59 - —
l.c.l., same basis lb. .62 - —
Diphenyl, bbls., c.l., works lb. .15 - —
l.c.l., works lb. .16 - .20
Oxide, perfume grade, cns. lb. .48 - .61
dms. lb. .45 - .56
Diphenylamine, bbls. lb. .25 - —
Diphenylguanidin, dms., ton lots. lb. .35 - —
smaller lots lb. .36 - .37
Divi-divi, 38% tannin, bgs., bls., c.l., U.S. ports, ex dock ton 61.00 - 62.00
Doggrass root, dom., cut, bls. lb. .27 - .28
imp., N.F., cut, bls. lb. .35 - .40
Dogwood, Jamaica, bark, bls. lb. .12 - .14
Dragon's blood, drops, cs. lb. .45 - .47
moss, cs. lb. 1.50 - 1.55
reeds, cs. No stocks
Dyes, coaltar, certified colors for foods, drugs and cosmetics, 1-lb. lots:—
Blue, FD&C, No. 1, cns. lb. 14.85 - —
No. 2, cns. lb. 14.85 - —
Green, FD&C, No. 1, cns. lb. 14.85 - —
No. 2, cns. lb. 19.25 - —
No. 3, cns. lb. 30.25 - —
Orange, FD&C, No. 1, cns. lb. 3.20 - —
No. 2, cns. lb. 4.00 - —
Red, FD&C, No. 1, cns. lb. 6.60 - —
No. 2, cns. lb. 3.15 - —
No. 3, cns. lb. 19.25 - —
No. 4, cns. lb. 6.35 - —
No. 32, cns. lb. 4.55 - —
Yellow, FD&C, No. 1, cns. lb. 9.35 - —
No. 3, cns. lb. 2.90 - —
No. 4, cns. lb. 2.90 - —
No. 6, cns. lb. 3.45 - —
Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots:—
Black, D&C, No. 1, cns lb. 9.15 - —
Blue, D&C, No. 4, cns lb. 13.55 - —
Brown, D&C, No. 1, cns lb. 13.55 - —
Green, D&C, No. 5, cns lb. 13.55 - —
No. 6, cns lb. 13.55 - —
Orange, D&C, No. 3, cns lb. 9.15 - —
No. 4, cns lb. 16.85 - —
No. 5, cns lb. 4.75 - —
No. 10, cns lb. 17.40 - —
Red, D&C, No. 8, cns lb. 3.10 - —
No. 9, cns lb. 3.10 - —
No. 10, cns lb. 3.50 - —
No. 11, cns lb. 1.85 - —
No. 12, cns lb. 2.50 - —
No. 17, cns lb. 9.15 - —
No. 18, cns lb. 20.15 - —
No. 19, cns lb. 16.85 - —
No. 21, cns lb. 3.95 - —
No. 22, cns lb. 9.15 - —
No. 28, cns lb. 26.70 - —
No. 33, cns lb. 14.65 - —
Violet, D&C, No. 1, cns lb. 13.55 - —
No. 2, cns lb. 13.55 - —
Yellow, D&C, No. 7, cns lb. 9.15 - —
No. 8, cns lb. 9.15 - —
No. 10, cns lb. 11.55 - —
No. 11, cns lb. 11.55 - —
No. 19, cns lb. 16.85 - —
No. 22, cns lb. 9.15 - —
No. 33, cns lb. 14.65 - —
No. 37, cns lb. 13.55 - —
Dyes, coaltar, certified colors for external use drugs and cosmetics, 1-lb. lots:—
Blue, Ext. D&C, No. 1, cns lb. 13.55 - —
Green, Ext. D&C, No. 1, cns lb. 13.55 - —
Red, Ext. D&C, No. 1, cns lb. 14.35 - —
No. 3, cns lb. 24.00 - —
Yellow, Ext. D&C, No. 1, cns lb. 9.15 - —
Dyes, oil-soluble, 100-lb. dms., sellers' works or warehouse.
Black, blue, No. 550 lb. 61 - —
Jet, No. 551 lb. 66 - —
Brown, R, conc. lb. 1.04 - —
Orange R, brilliant lb. 67 - —
Red, 4 B, conc. lb. 1.03 - —
Yellow, C lb. .88 - —
FN, conc. lb. 91 - —
Dyes, spirit-soluble, same basis
Auramine, O lb. 1.54 - —
Black, basic, blue lb. 91 - —
Jet lb. 91 - —
Blue, methylene, 2 B, conc lb. 1.21 - —
Brown, Bismarck, R, conc lb. .61 - —
Chrysoidine, R, extra lb. .44½ - —
Y, extra lb. .48 - —
Fuchsine, conc lb. 2.03 - —
Green, Malachite, conc lb. 1.64 - —
Rhodamine, B lb. 4.37 - —
Safranine, Y, conc lb. 2.19 - —
Violet, methyl, B lb. .87 - —
Dyes, water-soluble, same basis.
Black, acid blue, B, extra lb. 61 - —
Orange, acid, Y, conc lb. .36 - —
Rhodamine, azo-, R, extra, conc lb. .79 - —
Scarlet, crocein, MOO lb. 1.12 - —
Yellow, azo-, conc lb. .81 - —
Pint light, 3 G, extra lb. 1.09 - —
Methanil, conc lb. .70 - —

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

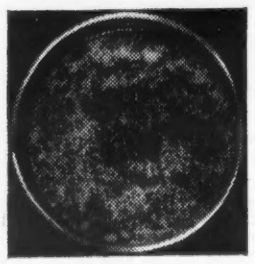
E

Echinacea root, bls. lb. .90 - .65
Egg albumen (see Albumen).
Yolk, dried, dom., bbls. lb. 1.20 - 1.25
tanners, bbls. lb. .95½ - .97
Elder flowers, bright, bls. lb. .60 - .65
Elecampane root, bls. lb. .35 - .40
Elm bark, grinding, bls. lb. .35 - .36
powd., bbls., bxs. lb. .48 - .50
select, bndls. lb. .55 - .56
Emetine hydrochloride, bots. oz. 53.50 - 51.00
Ephedra herb, bls. lb. .20 - .21
Ephedrine, synthetic, USP, anhydrous, drums, bots., 100 ozs. oz. .81 - —
hydrous, bots., 100 ozs. oz. .76 - —
Hydrochloride, tin, 100 ozs. oz. .60 - —
Sulphate, cryst., tins, 100 ozs. oz. .57 - —
powd., tins, 100 ozs. oz. .58 - —
Epichlorohydrin, dms., c.l., works, lb. .46 - —
l.c.l., works lb. .46½ - —
tanks, works lb. .41½ - —
Epinephrine, synth., USP, bots. gram .60 - .70
Epsom salt, tech., bgs., c.l. 100 lbs. 2.30 - —
l.c.l. 100 lbs. 2.65 - —
USP, cryst., bgs., c.l. 100 lbs. 2.50 - —
l.c.l., 5,000 lbs, 1 withdrawal, 100 lbs. 2.75 - —
smaller lots 100 lbs. 3.00 - —

Epsom salt prices freight equalized: Baltimore, Carteret, N. J.; Chicago, Cincinnati, Cleveland, Midland, Mich

Ergot, USP, cns. lb. 1.20 - 1.25
Ergotine, bots. oz. No prices
Sulphate, bots. oz. 60.00 - 61.00
Ether, acetic (see Ethyl acetate).
Amyl, dms., c.l., works lb. .695 - —
l.c.l., works lb. .702 - —
tanks, works lb. .685 - —
Butyl, dms., l.c.l., dlvd lb. .31 - —
Butyric (see Ethyl butyrate).
Dichlorethyl, purif., dms., works, frt. equald lb. .12½ - —
l.c.l., same basis lb. .14 - —
tanks, same basis lb. .12½ - —
Ethyl (see Ether, sulphuric).
Isopropyl, dms., c.l., dlvd lb. .66 - —
l.c.l., dlvd lb. .66½ - —
tanks, dlvd lb. .64½ - —
Nitrous, conc., bots., 100 lbs. lb. .98 - 1.10
Sulphuric, conc., dms. lb. .18 - .23
USP, anesthesia, hospital, cns. lb. .61 - .75
synthetic, dms., c.l., frt. alld. lb. .18 - —
l.c.l., same basis lb. .19 - —
tanks, same basis lb. .16 - —
Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld. lb. .19½ - —
l.c.l., frt. alld. lb. .20½ - —
tanks, frt. alld. lb. .18 - —
95-98%, dms., c.l., frt. alld. lb. .20 - —
l.c.l., frt. alld. lb. .21 - —
tanks, frt. alld. lb. .18½ - —
99%, dms., c.l., frt. alld. lb. .20 - .20¼
l.c.l., frt. alld. lb. .21 - .21¼
tanks, frt. alld. lb. .18½ - .18¼
NF, dms. lb. .20 - —
synthetic, 85-90%, dms., c.l., frt. alld. lb. .13½ - —
l.c.l., frt. alld. lb. .14 - —
tanks, frt. alld. lb. .12 - —
95-98%, dms., c.l., frt. alld. lb. .13½ - —
l.c.l., frt. alld. lb. .14½ - —
tanks, frt. alld. lb. .12½ - —
Acetoacetate, dms., c.l., works lb. .55½ - —
l.c.l., frt. alld. lb. .56½ - —
Benzoate, bots. lb. .60½ - .66
Betaethoxypropionate, dms., works, lb. .70 - —
Bromide, tech., 98%, dms. lb. .36 - .40
Butyrate, bots. gal. 3.50 - —
cns., works lb. .65 - .70
dms., works lb. .60 - —
Carbamate, dms., dlvd. E lb. .58 - —
Chloride, tech., tanks lb. .13½ - —
USP, bbls., cyl. lb. .20 - .22
Cinnamate, cns. lb. 2.30 - 3.25
Ethanolamine, mixed, dms., c.l., works lb. .27 - —
l.c.l., works lb. .28 - —
Formate, dms. lb. No stocks
Iodide, bots. lb. 3.50 - 3.60
Lactate, dms., works lb. .41 - —
Methacrylate, M-2, dms., works lb. .60 - —
cns., works lb. .63 - .67
P-2, cns., works lb. .65 - —
Myristate, dms., works lb. No prices
Oenanthate, dms. lb. 2.60 - 3.25
Oleate, dms., l.c.l., works lb. .75 - —
Oxalate, dms., frt. alld. lb. .33 - —
Silicate, dist. (see Tetraethyl orthosilicate).
40% available SiO_2, dms., works, lb. .50 - —
Ethylalphanaphthylamine, bbls. lb. .75 - —
Ethylaniln, dms. lb. .60 - —
Ethylcellulose fib dms., 5,000 lbs., works lb. .52 - —
smaller lots, works lb. .54 - .62
Ethyldiethanolamine, dms., l.c.l., works lb. .80 - —
Ethylene dichloride, dms., c.l., works, frt. alld. E. of Rockies lb. .08½ - —
West of Rockies lb. .09 - —
l.c.l., works, frt. alld. E. of Rockies lb. .09½ - —
West of Rockies lb. .10 - —
smaller containers lb. .12½ - —
tanks, frt. alld. E. Rockies lb. .07 - —
West of Rockies lb. .07½ - —
Oxide, dms. c.l., works lb. .20 - —
l.c.l., works lb. .21 - —
tanks, works lb. .15 - —
Trichloride (see Trichloroethylene).
Ethylenediamine, tanks, works lb. .50 - —

The bugs can be...



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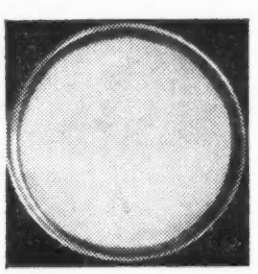
or

out →



DOWICIDES make the difference!

You can keep bacteria and fungi out of your operations—stop the losses they cause—with Dowicides, Dow's effective control agents.

The Dowicides were produced to meet the ever increasing demand for effective control of micro-organisms in industry. These germicides and fungicides, produced by Dow, are now finding ready acceptance in nearly every major industry—in paint, paper, leather, textiles, lumber, adhesives, petroleum and disinfectants—where they are effectively checking the tremendous industrial losses caused by mold and bacteria. The Dowicides are continually solving *new* problems of mold and bacteria control in industry—and they're continually aiding in the production of higher quality material.

Where fungi and bacteria are the cause of operational difficulties the Dowicides should be considered. We would welcome the opportunity to discuss their applications with you.

THE DOW CHEMICAL COMPANY • MIDLAND, MICHIGAN

New York • Boston • Philadelphia • Washington • Cleveland • Detroit • Chicago
St. Louis • Houston • San Francisco • Los Angeles • Seattle
Dow Chemical of Canada, Limited, Toronto, Canada

DOWICIDES

germicides and fungicides

CHEMICAL COMMENTS

MORE AND MORE JOBS FOR DOWFLAKE

Dowflake (Dow's convenient flake-form calcium chloride) has long been well known and valued in Portland cement concrete construction and for making gravel or similar type roads firm and dustless. But many and diversified are its other applications. It dust-proofs and freeze-proofs coal. It serves as a refrigerant in the frozen food industry as well as in leading warehouses and ice plants, where it circulates freely at sub-zero temperatures and reduces operating and equipment costs. It acts as an anti-freeze in fire barrels. And now it is more and more in demand as a de-humidifier of damp basements, game rooms and storage areas. Dowflake is a real career chemical!

50 YEARS WITH BROMINE

The first products manufactured by Dow over 50 years ago were the bromides—and today over 100 bromine products, both organic and inorganic, are being produced for use by many and varied industries. The story of these interesting chemicals and their properties makes up a new booklet entitled, "Bromine and Bromine Products." A copy may be obtained by writing the nearest Dow office.

METHOCEL IS OUR "GOOD MIXER"

Methocel (Dow Methylcellulose) is readily soluble in water, and yields neutral solutions in a wide range of viscosities, varied to suit many diversified applications. Many industries, including paper, paint, leather, textiles and cosmetics, utilize Methocel's widely applicable properties which make it ideal as a dispersing, thickening, stabilizing, emulsifying, binding and coating agent.

Additional information about any of these products is available on request.

Dow

CHEMICALS INDISPENSABLE TO INDUSTRY AND AGRICULTURE

Ethyleneglycol, dms., c.l., frt. alld. E..lb. .13½- —
l.c.l., same basis.....lb. .14½- —
tanks, same basis.....lb. .12 - —
Monobutylether, dms., c.l., works.lb. .21 - —
l.c.l., works .....lb. .22 - —
tanks, works .....lb. .20 - —
Monoethylether, dms., c.l., works.lb. .17 - —
l.c.l., works .....lb. .18 - —
tanks, works .....lb. .16 - —
Monoethylether acetate, dms., c.l., works..lb. .15 - —
l.c.l., works .....lb. .16 - —
tanks, works .....lb. .14 - —
Monomethylether, dms., c.l., works.. lb. .18 - —
l.c.l., works .....lb. .19 - —
tanks, works .....lb. .17 - —
Monomethylether acetate, dms., c.l., works..lb. .23 - —
l.c.l., works .....lb. .24 - —
tanks .....lb. .22 - —
Ethylethanolamines, mixed, dms., c.l., works..lb. .27 - —
l.c.l., works.....lb. .30 - —
Ethylmonoethanolamine, l.c.l., dms., works..lb. .80 - —
Ethylmorphine, hydrochloride, bots.oz.11.85 - —
Ethylorthotoluidine, bbls. .....lb. .80 - —
Ethylvanillin, cns., 5 lbs or more..lb. 6.75 - —
smaller lots .....lb. 6.80 - 6.90
Eucalyptol, USP, cns., dms.....lb. 2.25 - 4.00
Eucalyptus leaves, bls.....lb. .14 - .15
Eugenol, prime USP XII.....lb. 2.35 - 3.25
Euphorbia, pil., herb, bls.....lb. .17 - .18

F

Feldspar, enamel, 100 mesh bgs., works. ton.17.00 -20.50
bulk, c.l., works.....ton.14.00 -17.50
Glass, 20 mesh, bgs., tons, works. ton.12.75 -16.25
bulk, c.l.....ton. 9.75 -12.25
Pottery, bgs., l.c.l., 2 tons, works.ton.20.00 -22.00
bulk, c.l., works.....ton.17.00 -19.00
Fennel seed, Argentine, bgs., futures, lb. .07 - .08
Indian, bgs., afloat.....lb. .15 - .15½
Fenugreek, domestic, bgs.....lb. .10 - .10½
Indian, bgs.....lb. .10 - .10½
futures, bgs.....lb. .09½- .10
Ferric sulphate (see Iron sulphate, ferric)
Film scrap, colored, cs., works....lb. .14½- —
water-white, cs., works.....lb. .15½- —
Fir balsam, Canada, cns.....gal.28.00 -29.00
Oregon, bbls. .....gal. 2.35 - 2.40
Fishberries, bgs. .....lb. .24 - .25
Fishliver oils (see Oil, fishliver).
Fishmeal, grd., 60% protein, bgs., Balto. area..ton.160.00 - —
65% protein, bgs., Balto. area..ton.170.00 - —
Fishscrap, dried, 60% protein, bulk, Balto. area..ton.135.00 - —
Fleaseed, black, bgs.....lb. .45 - .46
blonde, bgs. .....lb. .27 - .30
Husks, bgs. .....lb. .80 - .85
Fluorspar, No. 1, ground 96-98% CaF_2, bulk, c.l., mines..net ton.37.00 - —
washed gravel, 70% or more, CaF_2, bulk, c.l., mines..ton.33.00 - —
65%, bulk, c.l., mines.....ton.32.00 - —
60%, bulk, c.l., mines.....ton.31.00 - —
less than 60%, bulk, c.l., mines.. ton.30.00 - —
Formaldehyde, bbls., c.l., works....lb. .0645- —
l.c.l., works.....lb. .0695- —
dms., ext'a, c.l., works.....lb. .0545- —
l.c.l., works.....lb. .0595- —
tanks, works.....lb. .0370- —
tankcrs.s, dlvd., N.Y.C.....lb. .0295- —
Fringetree bark, bls.....lb. .65 - .66
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines..ton.30.00 - —
Tex. mines .....ton.27.00 - —
spent, bulk, Bayonne.....ton. 2.00 - 4.00
Imp., bgs., c.l.....ton.30.00 -40.00
Furfural, tech., dms., c.l., works.lb. .13 - —
dms., cns., l.c.l., works.....lb. .15½- .20½
tanks, works .....lb. .09½- —
Fusel oil, refined, dms., c.l.....lb. .29½- —
l.c.l. .....lb. .30½- —
tanks .....lb. .28 - —
Fusic extract, cryst., No. 1, bbls., l.c.l..lb. .42½- —
No. 1A, bbls., l.c.l.....lb. .41½- —
No. 2, bbls., l.c.l.....lb. .40½- —
No. 3, bbls., l.c.l.....lb. .38½- —
liquid, No. 0, bbls., l.c.l.....lb. .22 - —
No. 1, bbls., l.c.l.....lb. .20½- —
No. 2, bbls., l.c.l.....lb. .19½- —
No. 3, bbls., l.c.l..... .....lb. .17 - —
solid, No. 1, bxs., l.c.l.....lb. .28 - —

G

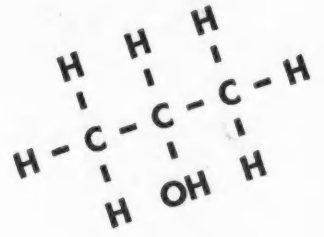
G salt, bbls.....lb. .53 - —
Galangal root, bls.....lb. .18 - .19
Gambier, plantation, bgs., ex dock..lb. .21 - .23
Extract, bbls.....lb. No stocks
Gammapicoline, 95%, dms., c.l., works. lb. 1.35 - —
Gasoline, at refinery, ex tax, Arkansas, 73-75 octane, tanks.. gal. .107½- —
Bayonne, 74 octane, tanks....gal. .093 - —
Gulf coast, 73-75 octane, tanks. gal. .105 - .11
Group 3, 73-75 octane, tanks..gal. .105 - .11⅝
Pennsylvania, western, U. S. motor, 74 octane, leaded tanks. gal. .115 - .12
natural, 26-70, octane group 3, tanks..gal. .085 - —
Gelatin, silver label, cns., dlvd....lb. 1.25 - —
export, cs.....lb. 1.35 - —
Gelatin price 5c. higher for deliveries in Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash., Wyo.
Gelsemium root, bls.....lb. .35 - .40
Gentian root, bls.....lb. .18 - .19
grd., bbls., bxs.....lb. .22 - .24
powd., bbls., bxs.....lb. .23 - .25
Geraniol, 92-96%, cns., dms.....lb. 3.40 - —
prime .....lb. 2.75 - —
Geranyl acetate, cns.....lb. 3.35 - 3.85
Ginger, oleoresin, bots.....lb. 4.25 - 4.75
Root, African, No. 1, bls.....lb. .14 - .14½
Cochin, bleached, bgs.....lb. .16 - .16½
unbleached, bgs.....lb. .16 - .17
Jamaica, No. 1, bgs.....lb. .20 Nom.
No. 2, new crop, bgs., futures..lb. .17½- .18
No. 3, new crop, bgs., futures..lb. .16½- .17
Rhizome, bgs. .....lb. .16 - .16½
Glauber's salt, anhyd. (see Soda sulphate).
cryst., bgs., works.....100 lbs. 1.25 - 1.75
l.c.l., bgs., works.....100 lbs. 1.75 - 2.10
Glue, bone, calcium type, 24 millipoise, 30 jellygrams, bgs., c.l., East of Midwest..lb. .21 - .24
36/56, bgs., c.l., same basis....lb. .22 - .26
58/82, bgs., c.l. ,same basis....lb. .23 - .26
82/108, bgs., c.l., same basis...lb. .25 - .27
Bone glue, l.c.l. prices, 1c. higher than c.l.
Glue, hide, 100-121 (jelly test in grams), bgs., c.l., dlvd..lb. .20 - .25½
122-149, bgs., c.l., dlvd.....lb. .21 - .25½
150-177, bgs., c.l., dlvd.....lb. .22 - .27
178-206, bgs., c.l., dlvd.....lb. .23 - .28
207-236, bgs., c.l., dlvd.....lb. .24 - .29
237-266, bgs., c.l., dlvd.....lb. .25 - .30
267-298, bgs., c.l., dlvd.....lb. .26 - .31
299-330, bgs., c.l., dlvd.....lb. .27 - .32
331-362, bgs., c.l., dlvd.....lb. .28 - .33
363-394, bgs., c.l., dlvd.....lb. .29 - .34
395-427, bgs., c.l., dlvd.....lb. .30 - .35
428-460, bgs., c.l., dlvd.....lb. .31 - .36
461-494, bgs., c.l., dlvd.....lb. .32 - .37
495-529, bgs., c.l., dlvd.....lb. .33 - .38
Hide glue l.c.l. prices 1c. higher than c.l.; bbls., bgs. more than bgs.
Glycerin, crude, saponification, 88% to refiners, tanks, dlvd..lb. .29 - .30
soaplye, 80%, tanks, dlvd.....lb. .31 - .32
dynamite, dms., c.l., dlvd.....lb. .39½- .40¼
l.c.l., dlvd. .....lb. .40 - .40¾
tanks, dlvd. .....lb. .39¼- .40
high gravity, dms., c.l.....lb. .39½- .40¼
l.c.l. .....lb. .40 - .40¾
tanks .....lb. .39¼- .40
refined, RP, 98%, dms., c.l.....lb. .39¾- .41½
tanks .....lb. .39½- .41¼
USP, 95%, dms., c.l.....lb. .39½- .41¼
l.c.l. .....lb. .40 - .41¾
tanks .....lb. .39¼- .40
yellow, distilled, dms., c.l.....lb. .39⅜- .40⅝
l.c.l. .....lb. .39⅞- .40⅝
Glycine USP (see Acid, aminoacetic).
Glycol boriborate, dms.....lb. .22 - —
Stearate, dms. .....lb. .26 - —
Gold chloride, acid-brown, bots.....oz.22.00 -22.25
acid-yellow, bots. .....oz.20.00 -20.25
Gold of pleasure seed, bgs., futures lb. .30 - .31
Goldenseal root, bls.....lb. 7.25 - 7.30
powd., bxs. .....lb. 7.75 - 7.80
Gold-sodium chloride, photo, bots..oz.13.00 -13.50
USP IX, bots.....oz.14.00 -14.50
Grains of paradise, bgs.....lb. .40 - .42
Graphite, imported, amorph., powd., bgs., dlvd..lb. .04 - .06
crystalline, 88-90%, powd., bgs., ex whse..lb. .14 - .16
90-92%, powd., bgs., ex whse. lb. .16 - .19
97%, powd., bgs., ex whse....lb. .22 - .25
flake, No. 1, 90-95%, bgs., cts., ex whse..lb. .21 - .22
No. 2, bgs., ex whse.....lb. .25 - —
Grease, house, loose.....lb. .22 - —
White, choice, loose.....lb. .24 - —
Wool (see Degras and Lanolin).
Yellow, loose .....lb. .22½- —
Green, brilliant, thioflavin, toner, molybdic, kgs., works..lb. 4.25 - 4.50
Tungstic, kgs., works.....lb. 4.25 - 4.50
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis. lb. .32 - —
6-10%, bbls., same basis..lb. .33 - —
11-15%, bbls., same basis..lb. .34 - —
16-20%, bbls., same basis..lb. .34½- —
21-25%, bbls., same basis. lb. .35½- —
26-30%, bbls., same basis..lb. .35⅞- —

Ethyleneglycol—Green, Paris

Green, chrome, CP, 31-35%, bbls., same basis..lb. .35½- —
36-40%, bbls., same basis..lb. .38½- —
41-45%, bbls., same basis..lb. .40 - —
46-50%, bbls., same basis..lb. .41¾- —
50% and over, bbls., same basis..lb. .42¾- —
reduced color, 5%, bbls., same basis, lb. .10 - —
6-10%, bbls., same basis..lb. .10¾- —
11-13%, bbls., same basis..lb. .11¼- —
14-16%, bbls., same basis..lb. .12 - —
17-19%, bbls., same basis..lb. .12¼- —
20-21%, bbls., same basis..lb. .12½- —
22-23%, bbls., same basis..lb. .12¾- —
24-25%, bbls., same basis..lb. .13 - —
26-27%, bbls., same basis..lb. .13½- —
28-29%, bbls., same basis..lb. .14 - —
30-31%, bbls., same basis..lb. .15 - —
32-33%, bbls., same basis..lb. .16¼- —
34-35%, bbls., same basis..lb. .17½- —
36-40%, bbls., same basis..lb. .20 - —
41-45%, bbls., same basis..lb. .22¼- —
46-50%, bbls., same basis..lb. .23¾- —
51-55%, bbls., same basis..lb. .23½- —
56-60%, bbls., same basis..lb. .24 - —
61-65%, bbls., same basis..lb. .25 - —
66-70%, bbls., same basis..lb. .26¼- —
Chrome green prices are ½c. higher dlvd Ala., Fla., Ga., La (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

CELANESE

INCREASES PRODUCTION OF ISO-PROPYL ALCOHOL



In order to serve increasing industrial demands, the Chemical Division of Celanese Corporation of America is offering increased quantities of iso-Propyl Alcohol. Celanese* iso-Propyl is now available in tank car quantities from the Chemcel Plant at Bishop, Texas. It is a Technical Grade alcohol possessing an exceptionally pleasant odor. This unusual characteristic suggests wide application as a chemical intermediate, solvent, extractant, diluent and for conversion to its respective esters. In addition, its unusually low freezing point characteristics have fully established its use as an anti-freeze.

This addition to the growing line of Celanese* organic chemicals is another step in the progressive chemical program of Celanese Corporation of America. As a pioneer in producing organic chemicals from petroleum gases, Celanese is in an advantageous position, through advanced research and the most modern production facilities, to meet critical chemical needs. For information on Celanese organics, and for technical assistance in their application, write:

CELANESE CORPORATION OF AMERICA,
Chemical Division,
180 Madison Avenue, New York 16, N. Y.

A NEW TYPE

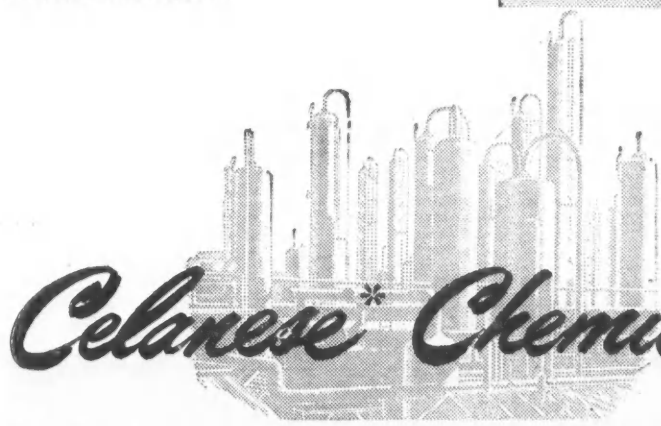
GLYCOL

2-METHYL-1, 3-PENTANEDIOL

Combining solvent, lubricating and penetrating properties.

Containing one primary and one secondary hydroxy group, Celanese Methyl Pentanediol has unusual solubility for a wide variety of resins, and is miscible with most common organic solvents. Its high boiling point (215°C) plus complete miscibility with water give it a combination of properties not found in any other glycol now in use.

Call on Celanese for technical assistance and information regarding the application of Methyl Pentanediol in your field. Our Field Technicians and Research Facilities are always at your service.



Celanese* Chemicals

*Reg. U. S. Pat. Off.

ALCOHOLS • ALDEHYDES • GLYCOLS • KETONES • ORGANIC ACIDS • SOLVENTS • PLASTICIZERS • INTERMEDIATES

Green, Chromium—Iron Stearate

Green, chromium oxide, hydrated, bbls., works..lb. .85 - —
pure, bgs., works.....lb. .30 - .33
Malachite, thioflavin toner, molybdic, bbls., works..lb. 3.00 - —
Tungstic, obls. works.....lb 3.40 - —
Paris (see P)
Phthalocyanin toner, bbls., works.lb. 4.40 - 5.00
Tungstated, brilliant, kgs.....lb. 3.00 - 4.00
Emerald, kgs.....lb 2.00 - —
Verdigris (see V)
Dyes (see Dyes, sundry).
Grindelia robusta herb, bls.....lb. .30 - .35
Guaiac resin, cs.....lb .48 - .49
Wood, bls.....lb. .35 - .36
Guaiacol, cryst., NF, tins.....lb. 1.75 - —
liquid, NF, bots., cbys.....lb 1.80 - —
Carbonate, NF, dms.....lb 2.85 - —
Guarana, powd., cs.....lb 2.00 - 2.10
Gum, accroides (see Gum, yacca).
Aloe (see A.)
Ammoniac, tears, cs.....lb .90 - .95
Arabic, amber, sorts, bgs.....lb .14½ - .15
white, sorts, l. bgs.....lb. .28 - .29
powdered, USP, bbls.....lb. .20½ - .21
Asafetida (see A)
Asphalthum (see A).
Benzoin, Sumatra, cs.....lb. .50 - .55
Camphor (see C)
Copal, Congo, No. 1, bgs.....lb. .26 - .28
No. 2, bgs.....lb. .22 - .24
No. 3, bgs.....lb. .20 - .22
Macassar DBB, bgs.....lb. .24 - .25
MA, bgs.....lb. .24½ - .25½
loba C, bgs.....lb. .27½ - .28½
Philippine, 1st quality, bgs.....lb. .27 - .30
2nd quality, bgs.....lb. .23 - .27
3rd quality, bgs.....lb. .20 - .23
Gum, dammar, Batavia, AE, cs.....lb. .25 - .29
E, cs.....lb. .18½ - .20½
Singapore, No. 1.....lb. .31 - .32
No. 2, cs.....lb. .24 - .26
East India, black, bold, bgs.....lb. .14½ - .16
Batu, bold, bgs.....lb. .12 - .13½
nubs, bgs.....lb. .08½ - .09½
Elemi, cns.....lb .27 - .29
Ester, gum-rosin type, dms., c.l., dlvd., Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul Va., W. Va.....lb .16¾ - —
wood-rosin type, dms., any quantity, dlvd., Ill., Ind., etc..lb. .16¾ - —
Euphorbium, cs.....lb .50 - .55
Galbanum, cs.....lb. .85 - .90
Gamboge, pipe, cs.....lb 1.70 - 2.00
powd., bbls.....lb 1.95 - 2.25
Ghatti, No. 2, bgs.....lb. .35 - .37
No. 3, bgs.....lb .31 - .33
Guaiac (see Guaiac resin).
Karaya, No. 1.....lb. .46 - .51
No. 2.....lb. .38 - .43
No. 3.....lb. .33 - .36
No. 4.....lb. .28 - .31
No. 5.....lb. .23 - .27
No. 6.....lb. .20 - .22
Kauri, bgs.....lb. .31 - —
Locust bean, powd., bgs.....lb. .42 - .48
Mastic, cs.....lb. 2.25 - —
Myrrh, cs.....lb. .45 - .46
Olibanum, siftings, cs.....lb. .12 - .13
tears, cs.....lb. .22 - .38
Opium (see O).
Red (see Gum yacca).
Rosin (see R)
Gum, sandarac, cks.....lb. .95 - 1.00
Scammony, cs.....lb 1.50 - 1.55
Sterculia (see Gum, karaya).
Talha, bgs.....lb. .10 - .11
Tragacanth, No. 1, cs.....lb. 3.00 - 3.70
No. 2, cs.....lb. 3.20 - 3.25
No. 3, cs.....lb 2.25 - 2.50
powdered, USP, bbls.....lb 1.35 - 1.45
Yacca, bgs.....lb .06 - .07
Gypsum, Keene's cement, paper bgs., c.l., Acme, Tex., frt. equald.. ton.22.65 - —
Harlem river, N. Y., frt. equald. ton.28.25 - —
Medicine Lodge, Kans., frt. equald..ton.17.00 - —
New Brighton, N. Y., frt. equald. ton.20.65 - —
Southard, Okla., frt. equald.ton 17.00 - —
Sweetwater, Tex., frt. equald. ton.21.45 - —
Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald..ton.12.50 - —
Blue Rapids, Kans., frt. equald ton.10.50 - —
Harlem river, N. Y., frt. equald. ton.12.00 - —
Medicine Lodge, Kan., frt. equald..ton.12.50 - —
New Brighton, N. Y., frt. equald. ton.18.00 - —
Southard, Okla., frt. equald.ton.12.50 - —
Sweetwater, Tex., frt. equald.... ton.12.50 - —
Stucco, paper bgs., c.l., Acme, Texas, frt. equald.....ton. 8.00 - —
Blue Rapids, Kans., frt. equald. ton. 8.00 - —
Akron, N. Y., frt. equald..ton 8.00 - —
Gypsum, stucco, bgs., c.l., Clarence Center, N. Y., frt. equald..ton. 8.00 - —
Fort Dodge, Iowa, frt. equald. ton. 8.00 - —
Grand Rapids, Mich., frt. equald..ton 8.00 - —
Gypsum, Ohio, frt. equald..ton. 8.00 - —
Harlem river, N. Y., frt. equald ton. 8.00 - —
National City, Mich., frt. equald..ton. 8.00 - —
New Brighton, N. Y., frt. equald ton. 8.00 - —
Plasterco, Ga., frt. equald..ton. 8.00 - —
Portsmouth, N. H., frt. equald. ton. 8.00 - —
Raton, Texas, frt. equald..ton. 8.00 - —
Sattville, Va., frt. equald. ton 9.00 - —
Southard, Okla., frt. equald.ton 8.00 - —
Sweetwater, Texas, frt. equald. ton 8.00 - —
Terra alba, paper bgs., c.l., Harlem river, N. Y., works..ton.22.50 - —
New Brighton, N. Y., works.... ton.21.00 - —

H

Hawthorn berries, bg.....lb. .57 - .58
Heliotropin, cryst., cns.....lb. 3.25 - 4.00
Hellebore, white, powd., bbls.....lb .70 - .71
Helonias root, bls.....lb 2.20 - 2.25
Hematine extract, cryst., No. 0, bbls.
Hematine extract, cryst., No. 0, bbls., l.c.l.,lb. .45½ - —
No. 1, bbls., l.c.l.....lb. .44½ - —
No. 1X, bbls., l.c.l.....lb. .41½ - —
No. 2, bbls., l.c.l.....lb. .40½ - —
No. 3, bbls., l.c.l.....lb. .38½ - —
No. 4, bbls., l.c.l.....lb. .36½ - —
No. 5, bbls., l.c.l.....lb. .34½ - —
paste, No. 1, bbls., l.c.l.....lb. .19 - —
No. 2, bbls., l.c.l.....lb. .18 - —
No. 3, bbls., l.c.l.....lb. .17 - —
No. 4, credit, bbls., l.c.l.....lb. .12½ - —
Hemlock bark extract, 25% tannin, bbls., c.l., works..lb. No stocks
tanks, works.....lb. No stocks
Henbane leaves, bls.....lb. 1.00 - 1.25
Henna leaves, bbls.....lb. .25 - .28
powd., bbls., bxs.....lb .34 - .36
Heptane, industrial, 90°-100° C., dms., c.l. group 3..gal. .15½ - .17
l.c.l., group 3.....gal. .21 - .60
tanks, group 3.....gal. .11½ - .12¾
77°-115° C., dms., c.l., group 3..gal. .14½ - .17
l.c.l., group 3.....gal. .21 - .60
tanks, group 3.....gal. .10½ - .11
laboratory, dms., c.l., group 3..gal. .18 - —
l.c.l., group 3.....gal. .30 - .60
Hexanal, normal, dms., l.c.l. works.lb. .25 - —
Homatropine, hydrobromide, bots....oz.15.00 -25.00
Hydrochloride, bots.....oz.20.00 -22.00
Hoolmeal, 17-18% ammonia bulk, c.l., Chicago..unit-ton. 8.50 - —
Hops, NF, bls.....lb. .55 - 1.50
Horehound, bls.....lb .12 - .13
Hydrangea, root, bls.....lb .22 - .25
Hydrastine, bots.....oz.20.00 -22.00
Sulphate, bots.....oz.20.00 -22.00
Hyoscamine, 10-grain bots.....bot. 1.95 - —
Hyoscine (see Goldenseal).
Hydrofuramide dust, 5lb. cns., works lb. .30 - .40
Hydrogen peroxide, USP, bbls.....lb. .03½ - .05
100 vols., cbys., E. of Miss. or West coast via Panama Canal.lb. .15½ - .18½
Hydroquinone, bbls., dms.....lb .30 - .34
Hydroxylcitronellal, cns.....lb. 6.50 - 7.50
Hyoscine hydrobromide, bots.....oz.30.00 -45.00
Hyoscyamine, bots.....oz.18.00 -24.00
Hydrobromide, bots.....oz.18.00 -19.50
Sulphate, bots.....oz.14.00 -19.50
Hypernic extract, cryst., No. 1, bbls., l.c.l..lb. .52½ - —
No. 2, bbls., l.c.l.....lb. .44½ - —
liquid, No. 1, bbls., l.c.l.....lb. .28½ - —
No. 2, bbls., l.c.l.....lb. .23½ - —
solid, No. 1, bxs., l.c.l.....lb. .41 - —
Hyssop herb, bgs.....lb .50 - .55
Leaves, bgs.....lb .55 - .60

I

Iceland moss, bgs.....lb. .50 - .52
Ichthammol, NF, bots.....lb 2.45 - —
Indian red (see Red, Indian).
Indigo, nat., chests.....lb. 2.14 - 2.80
synth., paste, bots.....lb .16½ - .19
powd., bbls.....lb .74½ - .85
Indol, CP, bots.....lb.18.00 -23.00
Inositol, tins, dlvd.....lb 5.00 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs., ex whse., Staten Island..lb. 1.729 - —
resubl., bots., jars.....lb 2.35 - 2.65
Iodoform, dms., kgs.....lb. 4.45 - —
Ionone ketone, alpha, cns.....lb.12.30 -16.40
beta, cns.....lb 9.00 -12.50
pure, cns.....lb 5.05 - 7.95
Methyl (see M).
IPC, bots., 1-5 lbs.....lb. 2.68 - 2.72
lb. dms., 100 lbs., ship't point..lb 2.30 - 2.50
50 lbs., ship't point.....lb. 2.40 - 2.52
10-25 lbs., ship't point.....lb. 2.50 - 2.54
Ipecac root, bgs.....lb. 5.25 - 5.30
powd., bgs.....lb. 5.45 - 5.50
Irish moss, bleached, prime, bls...lb .20 - .21
Iron acetate, liquor, 28°, bbls., c.l., works..lb .09 - —
l.c.l., works.....lb .09½ - —
solut., USP IX, cbys.....lb. .17 - —
dms.....lb .18 - —
Chloride (ferric), anhydr., tech., dms., c.l., works..100 lbs. 4.90 - 5.25
l.c.l., works.....100 lbs. 6.50 - 6.85
cryst., tech., bbls., works..100 lbs. 4.00 - 6.00
l.c.l., bbls., works.....100 lbs. 4.50 - —
USP X, lump, bbls.....lb. .07 - .08½
solut., 42 Fe, cbys., works, frt. alld. or equald..lb .05½ - .06
dms., same basis.....lb. .10 - —
Citrate, gran., dms.....lb. .77 - .79
Glycerophosphate, N.F., powd..lb. 4.35 - —
Hypophosphite, bbls., dms.....lb. 1.50 - 1.52
Iodide, bots.....lb 3.48 - 3.63
Naphthenate, 6% Fe, dms.....lb. .19½ - —
Nitrate, red, tech., dms.....lb. .03½ - .04
Oxalate, gran., dms.....lb. .82 - .85
Phosphate, soluble, NF, gran., cs.lb. .64 - .65
Pyrophosphate, soluble, NF VII, gran., dms..lb. .69 - .72
Reduced, 96%, kgs.....lb. .65 - .75
Resinate, 7.4% Fe, dms.....lb. .22 - —
Stearate, dms., c.l.....lb. .46 - —
ton lots.....lb. .47 - —
less ton lots.....lb. .48 - —

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The performance of Harshaw chemicals will confirm your judgment in purchasing them. For more than 50 years the selection of Harshaw chemicals has proved to be the correct choice for thousands of buyers. • The Harshaw trademark symbolizes unvarying first-line quality. It assures you that the Harshaw laboratories are striving for perfection and continuously searching for new developments . . . and that control laboratories in each Harshaw plant guard carefully the quality of the products manufactured. • You will make a correct decision . . . exercise good judgment . . . and help yourself to progress . . . when you specify Harshaw chemicals.

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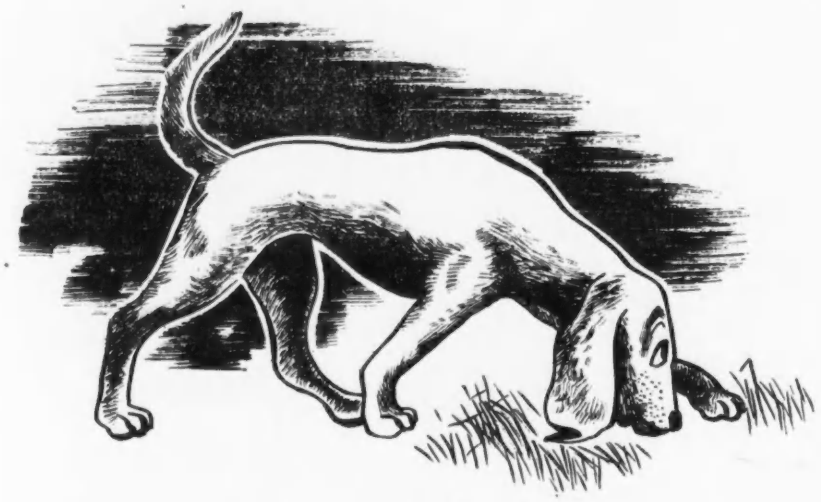


SPECIALISTS IN FINDING THE

Hard-to-Find!

Whether you seek sources or outlets our services may save you precious time and costly errors.

For two generations we have helped important buyers and sellers of chemicals to secure needed raw materials and find wider markets for their products . . . at mutually-advantageous terms. Such experience is of special value today, when markets are disorganized and intricate regulations govern imports and exports alike.

We welcome correspondence with consumers seeking hard-to-obtain commodities and manufacturers seeking additional outlets in the chemical and allied industries here and abroad. And also welcome inquiries on the chemicals listed.

NEUBERG CHEMICALS

ENCO CHEMICAL CORPORATION
formerly NEUBERG CHEMICAL CORPORATION

ESTABLISHED 1910 441 LEXINGTON AVENUE, NEW YORK 17, N. Y. TELEPHONE MU 5-1890

CABLE: Encofan, New York or Neuberg, New York

ACETIC ANHYDRIDE
ALUMINA HYDRATE
ALUMINUM HYDROXIDE U.S.P.
ALUMINUM CHLORHYDROL
ALUMINUM CHLORIDE
ACETONE
ACETANILID
ACID SODIUM PYROPHOSPHATE
BARIUM HYDRATE
BARIUM SULFATE
BARIUM PEROXIDE
BENZOATE OF SODA
BICARBONATE OF SODA
BENZENE HEXACHLORIDE
BENZOYL PEROXIDE
BLANC FIXE
CARBON TETRACHLORIDE
CARBON BISULPHIDE
CAUSTIC POTASH
CAUSTIC SODA
CITRIC ACID
CALCIUM CITRATE
CREAM OF TARTAR
DDT
EPSOM SALT
LECITHIN
LITHIUM SALTS
PERCHLORETHYLENE
PHOSPHORIC ACID
PHOSPHOROUS (RED AMORPHOUS)
ROCHELLE SALT
SAPONIN
SODIUM SULPHIDE
SODA ASH
SODIUM TRIPOLY PHOSPHATE
SODIUM TETRA PYROPHOSPHATE
TARTARIC ACID
TARTAR EMETIC
TRICHLORETHYLENE
VANILLIN

Iron Sulphate—Liverwort Leaves

Iron sulphate (ferric), anhyd., bgs., c.l., works..ton.35.00 - —
l.c.l., works.....ton.40.00 - —
partially hydrated, bgs., c.l., works..ton.26.50 - —
(ferrous), tech, (see Copperas).
USP, cryst., bbls., dms.....lb. .09½- .10
Iron-ammonium citrate, brown, green, gran., dms..lb. .45 - .46
Oxalate, bbls.....lb. .23½- —
dms., bgs.....lb. .25½- .26½
Iron-sodium oxalate, fine gran., bbls., dms..lb. .23½- .26½
Isobornyl acetate, cns.....lb. .97 - 1.10
Thiocyanoacetate, dms., c.l., works, gal. 3.85 - —
l.c.l., works.....gal. 3.85 - 4.05
tanks, works .....gal. 4.23 - —
Isobutyl acetate, cns.....lb. .97 - 1.10
Methacrylate, M-5, dms., works..lb. .60 - —
cns., works .....lb. .63 - .67
P-5, cns., works.....lb. .60 - —
Propionate, cns. .....lb. No prices.
Isobutyraldehyde, dms., works.....lb. .33 - .36
Isoeugenol, extra, cns.....lb. 3.25 - 4.00
cbys., extra.....lb. 3.10 - —
Isopentane, dms., works.....lb. .45 - .55
Isophorone, dms., c.l., works.....lb. .21 - —
l.c.l., works .....lb. .22 - —
tanks, works .....lb. .20 - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., frt. alld., E. of Rockies..lb. .13½- —
l.c.l., same basis.....lb. .14 - —
tanks, same basis.....lb. .12 - —
Alcohol (see Alcohol, isopropyl).
Ether (see Ether, isopropyl).
Phenylcarbamate (see IPC).
Isopropylamine, dms., works.....lb. .25 - —

J

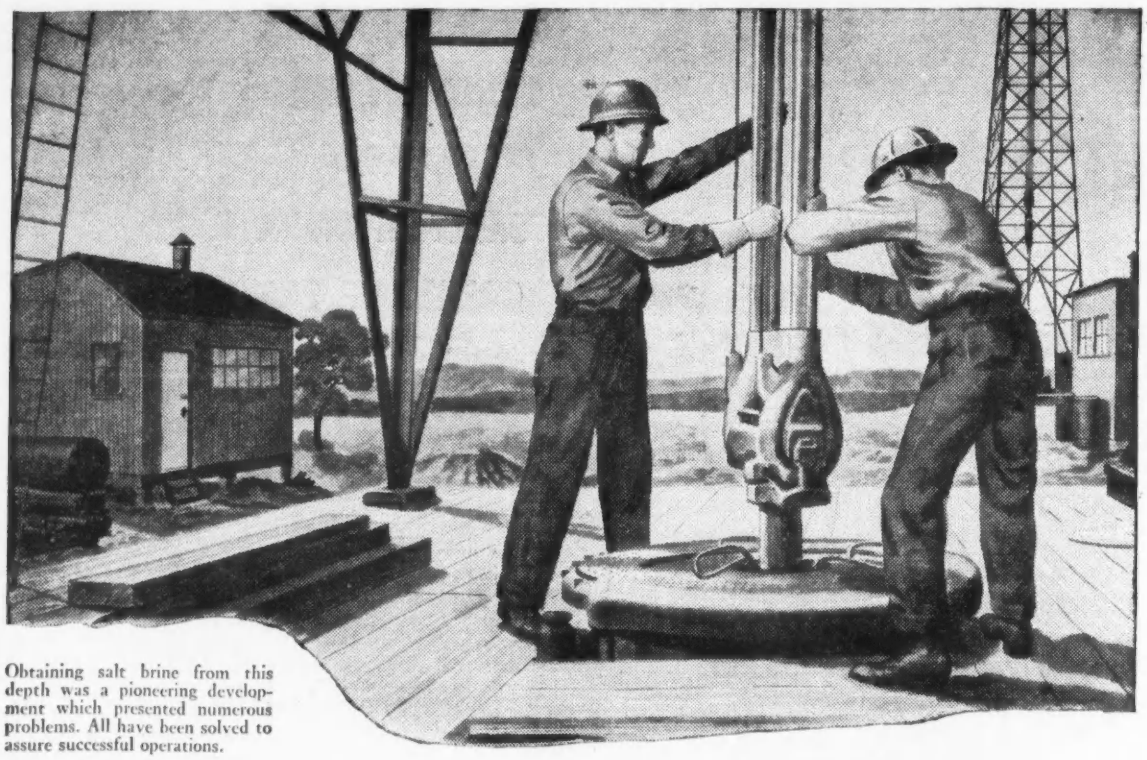
Jaborandi leaves, bls.....lb. .17 - .18
Jalap root, NF, bls.....lb. .44 - .49
powd., bbls., bxs.....lb. .50 - .55
Resin, lump, cns.....lb. 5.85 - —
powd., bxs. .....lb. 5.90 - —
Juniper berries, bgs.....lb. .10 - .15
Tar, USP, dms.....lb. .50 - .92

K

Kamala, powd., cns.....lb. .46 - .48
Kaolin (see China clay).
Kava kava root, bls.....lb. .35 - .40
Kerosene, at refinery: Ark., 42-44 w.w., tanks..gal. .09625 - —
Bayonne, 41-43, w.w., tanks....gal. .09 - —
California, 40-43, w.w.. tanks..gal. .0840- .1165
Gulf ports, 41-43, w.w., tanks..gal. .09 - .09375
Okla.-Tex., 41-43, w.w., tanks..gal. .095 - .09625
Penn., 45 w.w., tanks.....gal. .1125- .115
47 w.w., tanks.....gal. .115 - .1225
Kola nuts, bgs.....lb. 08 - .09
Kyanite, imp., low iron content, 10-mesh, whse..ton.85.00 -95.00
calcined, grain, 10-mesh, whse..ton.95.00 -105.00

L

Ladyslipper root, bls.....lb. 1.80 - 2.00
Lanolin, anhyd., cosmetic, dms., works, lb. .25 - —
USP, dms., works.....lb. .23 - —
hydrous, cosmetic, dms., works...lb. .23½- —
USP, dms., works.....lb. .21½- —
Lard, cash, tres., Chicago.....lb. .27½- .27¾
Larkspur seed, bgs.....lb. .55 - .57
Laurel berries, bls.....lb. .25 - .26
Leaves, Algerian, bls.....lb. .13 - .13½
Cyprian, bls. .....lb. .11 - .11½
Greek, bls.....lb. .11½- .12
Portuguese, good, bls.....lb. .10½- .11
ordinary, bls.....lb. .10 - .10½
Turkish, choice, bls .....lb. .17 - .17½
ordinary, bls. .....lb. .10½- .11
Lavender flowers, medium, bls.....lb. .66 - —
ordinary, bls.....lb. .30 - .31
select, bls.....lb. .75 - —
Lead acetate, white, broken, bbls..lb. .18½- —
cryst., bbls.....lb. .19½- —
gran., powd., bbls .....lb. .19¼- —
Arsenate, basic, powder, 3-lb. bgs. or larger, c.l...lb. .21¾- —
l.c.l. .....lb. .22¾- .23¾
1-lb. bgs., c.l.....lb. .29¼- —
l.c.l. .....lb. .30½- .31¼
Lead arsenate prices are works or frt. alld. on 96 lbs. or more to dest. whse. basis East.
Blue, basic sulphate, bbls., c.l., ship't point, frt. alld..lb. .15¾- —
l.c.l., works .....lb. .15¾- —
Carbonate (see Lead, white).
Chloride, fib. dms.....lb. .49 - —
Iodide, NF V, jars .....lb. 2.90 - 3.00
Linoleate, solid, 13%, bbls.....lb. .43½- —
Metal, pigs, prime, N. Y.....lb. .15 - —
E. St. Louis. .....lb. .1480- .1485
Metallic paste, dms., 10,000-40,000 lbs., works..lb. .27½- —
2,000-10,000 lbs., same basis...lb. .28½- —
up to 2,000 lbs., same basis..lb. .30 - —
Lead naphthenate, liquid, 21% Pb, dms..lb. .20½- —
30% Pb, dms.....lb. .24¾- —
solid, 37% Pb, dms.....lb. .27½- —
Nitrate, bbls., c.l. .....lb. .17⅞- —
l.c.l. .....lb. .18 - —
Oleate, bbls.....lb. .33½- —
Peroxide, pow.l., tech., bbls.....lb. .29 - .31
Red, 95% Pb_3O_4 or less, bbls., c.l., ship't point, frt. alld..lb. .1760- —
l.c.l., 5 tons, same basis....lb. .1800- —
smaller lots, same basis..lb. .1860- —
97% Pb_3O_4, bbls., c.l., same basis. lb. .1785- —
l.c.l., 5 tons, same basis....lb. .1825- —
smaller lots, same basis....lb. .1875- —
98% Pb_3O_4, bbls., c.l., same basis. lb. .1810- —
l.c.l., 5 tons, same basis....lb. .1850- —
smaller lots, same basis..lb. .1900- —
Resinate, precip., 23.8% Pb., dms. lb. .25 - —
Silicate, bgs. .....lb. .17 - .17½
Stearate, bbls., c.l.....lb. .52 - —
ton lots.....lb. .53 - —
less ton lots.....lb. .54 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate),
Tallate, liquid, 16% Pb, dms..... lb. .14 - —
solid, 30% Pb, dms.....lb. .19 - —
White, basic carbonate, bgs., c.l., ship't point, frt. alld..lb. .16 - —
l.c.l., works .....lb. .16½- .16½
basic silicate, bgs., c.l., ship't point, frt. alld..lb. .18½- .19½
l.c.l., same basis.....lb. .19 - .19¾
basic sulphate, bgs., c.l., ship't point, frt. alld..lb. .15¼- —
l.c.l., works .....lb. .15¾- —
Lecithin, edible, tech., bleached, dms., non-tet., c.l., works...lb. .28 - —
l.c.l., same basis.....lb. .26 - .31
unbleached, c.l., same basis...lb. .26 - —
l.c.l., same basis.....lb. .25 - .29
Lemon peel, bls.....lb. .25 - .30
Licorice extract, mass, cns.....lb. .25 - .30
powd., bbls. .....lb. .40 - .42
Root, bls.....lb. .06 - .07
5-lb. bundles, cs.....lb. .60 - .65
powd., bbls.....lb. .10½- .11
Lignin extract, tanning grade, bgs., c.l., works...lb. .04¾- —
Lime, agricultural, bulk, works..tons. 9.00 - 9.50
Chemical (quicklime), lump, pebble, bulk, Adams, Mass.....ton. 9.00 - —
Annville, Pa.....ton. 9.00 - —
Bellefonte, Pa. .....ton. 9.00 - —
Berkeley, W. Va.....ton. 9.00 - —
Buffalo, N. Y. .....ton.10.75 - —
Carey, Ohio .....ton. 7.00 - —
Cedar Hallow, Pa.....ton. 9.50 - —
Crab Orchard, Tenn.....ton. 8.50 - —
Eagle Mountain, Va.....ton. 8.50 - —
Farnums, Mass. .....ton. 9.00 - —
Gibsonburg, Ohio.....ton. 7.50 - —
Hannibal, Mo. .....ton. 7.50 - —
Keystone, Ala. .....ton. 8.50 - —
Knoxville, Tenn.....ton. 8.50 - —
Limedale, Ark. .....ton. 8.00 - —
Longview, Ala.....ton. 8.50 - —
Mitchell, Ind.....ton. 7.50 - —
Newala, Ala.....ton. 8.50 - —
Manistique, Mich.....ton. 8.00 - —
Marblehead, Ohio.....ton. 8.50 - —
Martinsburg, W. Va.....ton. 9.00 - —
Menominee, Mich.....ton. 8.00 - —
Ripplemead, Va.....ton. 8.50 - —
Riverton, Va.....ton. 8.50 - —
Rockland, Maine.....ton. 8.00 - —
Scioto, Ohio.....ton. 6.50 - —
Sherwood, Tenn.....ton. 8.75 - —
Sherwood, Wis.....ton. 8.50 - —
Springfield, Mo.....ton. 8.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 8.50 - —
Hydrated, paper bgs., Adams, Mass. ton.11.25 - —
Annville, Pa.....ton.11.50 - —
Bellefonte, Pa. .....ton.11.50 - —
Berkeley, W. Va.....ton.10.00 - —
Buffalo, N. Y.....ton.11.50 - —
Carey, Ohio .....ton. 9.00 - —
Cedar Hallow, Pa.....ton.11.50 - —
Crab Orchard, Tenn.....ton.11.65 - —
Eagle Mountain, Va.....ton.10.00 - —
Eagle, W. Va.....ton.11.50 - —
Farnums, Mass.....ton.11.00 - —
Gibsonburg, Ohio.....ton. 9.50 - —
Hannibal, Mo. .....ton. 9.50 - —
Keystone, Ala. .....ton.12.25 - —
Knoxville, Tenn.....ton.11.00 - —
LeRoy, Minn.....ton.10.00 - —
Limedale, Ark.....ton.10.00 - —
Longview, Ala. .....ton.12.25 - —
Marblehead, Ohio.....ton.10.50 - —
Mitchell, Ind.....ton.10.00 - —
Manistique, Mich.....ton. 9.50 - —
Newala, Ala.....ton.12.25 - —
Petoskey, Mich.....ton.10.00 - —
Port Island, Mich.....ton. 9.00 - —
Rapid City, S. Dak.....ton.12.00 - —
Ripplemead, Va.....ton.10.00 - —
Rockland, Maine.....ton. 9.00 - —
Scioto, Ohio.....ton. 8.00 - —
Sherwood, Tenn.....ton.12.14 - —
Sherwood, Wis.....ton.10.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton.11.50 - —
Spray, paper bgs., Adams, Mass..ton.11.75 - —
Annville, Pa.....ton.11.50 - —
Bellefonte, Pa.....ton.11.50 - —
Carey, Ohio.....ton.11.00 - —
Eagle, W. Va.....ton.11.50 - —
Farnums, Mass.....ton. 9.50 - —
Gibsonburg, Ohio.....ton.10.00 - —
Marblehead, Ohio.....ton.10.00 - —
Rockland, Me.....ton.10.00 - —
Scioto, Ohio.....ton.10.00 - —
Woodville, Ohio.....ton.10.00 - —
York, Pa.....ton.11.50 - —
Lime-ammonia-nitrogen, 20.5% N (see Ammonium nitrate-limestone).
Limestone, grd., bulk, works...ton. 1.40 - —
Linalool, ex bois de rose.....lb. 5.10 - 6.85
ex lignaloe wood.....lb. 6.50 - 7.00
Linalyl acetate, ex bois de rose, bots.lb. 4.35 - 7.20
ex lignaloe wood, bots.....lb. 8.25 - 8.40
ex petitgrain, bots.....lb. 5.10 - 6.35
Linden flowers with leaves, bls.....lb. .35 - .36
without leaves, bls.....lb. .35 - .36
Linseed meal, 34% bulk, Midwest mills. ton.98.00 -100.00
Litharge, com'l, powd., bbls., c.l. ship't point, frt. alld..lb. .1660- —
l.c.l., 5 tons, same basis..lb. .17 - —
smaller lots, same basis.....lb. .1760- —
Lithium bromide, bbl., works, frt. equald..lb. 1.90 - —
Carbonate, NF, bbls., kgs.....lb. 1.15 - —
Chloride, jars .....lb. 1.15 - 1.65
Citrate, bbls., dms., kgs.....lb. 1.30 - 1.45
Fluoride, bbls. .....lb. 1.90 - —
Hydroxide, jars .....lb. 1.15 - 1.25
Lime salts (see Calcium).
Lithopone, ordinary, bgs., c.l., ship't point..lb. .06 - —
l.c.l., same basis.....lb. .06¼- —
bbls., c.l., same basis.....lb. .06¼- —
l.c.l., same basis.....lb. .06½- —
Titanated (high-strength), bgs., c.l. lb. .07¾- —
smaller lots .....lb. .08 - —
bbls., c.l. .....lb. .08 - —
smaller lots .....lb. .08¼- —
Lithopone Pac. Cst. prices ¾c. higher.
Liverwort leaves, bls.....lb. .85 - .95



Obtaining salt brine from this depth was a pioneering development which presented numerous problems. All have been solved to assure successful operations.

Chlorine and Caustic Soda

from the world's deepest salt wells

The deepest salt bed in commercial use—6,800 feet below the earth's surface—provides the brine used at Columbia's electrolytic chlorine-caustic soda plant at Natrium, West Virginia. Hot water, pumped down to this great stratum, dissolves the rock salt and forces the brine to the surface.

The favorable location of the Natrium plant was established as a result of pre-Pearl Harbor studies by Columbia. Built and operated for the DPC, its post-war purchase by Columbia assured continued operation so helpful in meeting the urgent needs of industry for caustic and chlorine. The caustic soda is purified by a patented Columbia process to meet exacting uses such as required in the manufacture of rayon.

Pittsburgh Plate Glass Company, Columbia Chemical Division, Pittsburgh 13, Pa. District Offices: Chicago, Boston, St. Louis, Pittsburgh, New York, Cincinnati, Cleveland, Minneapolis, Philadelphia, Charlotte, San Francisco.

COLUMBIA CHEMICALS

PAINT · GLASS · CHEMICALS · BRUSHES · PLASTICS

PITTSBURGH PLATE GLASS COMPANY

Lobelia herb, bls. .....lb. .82 - .85
Lobeline sulphate, bots., works...oz.25.50 -38.00
Logwood extract, crystals, No. 1, bbls., l.c.l..lb. .38½- —
No. 2, bbls., l.c.l.....lb. .36½- —
liquid, No. 1, bbls., l.c.l.....lb. .18½- —
No. 2, bbls., l.c.l.....lb. .17½- —
No. 3, bbls., l.c.l.....lb. .17 - —
No. 4, bbls., l.c.l.....lb. .16½- —
solid, No. 1, bxs., l.c.l.....lb. .33 - —
No. 2, bxs., l.c.l.....lb. .31 - —
No. 3, bxs., l.c.l.....lb. .28½- —
No. 4, bxs., l.c.l.....lb. .28 - —
No. 5, bxs., l.c.l.....lb. .26½- —
No. 6, bxs., l.c.l.....lb. .44½- .49½
Lovage root, imp., bls.....lb. 1.20 - 1.25
Lupulin, NF VII tin.....lb.10.00 -11.00
Lycopodium, cs.....lb. 2.15 - 2.65

M

Mace, No. 1, Siauw, cs.....lb. 1.35 - 1.40
East Indian, bgs., futures.....lb. 1.35 - 1.38
West Indian, bgs., futures.....lb. 1.35 - 1.40
Broken, futures.....lb. 1.25 - 1.30
Madder, Dutch, bgs.....lb. .29 - .32
Magnesia, calcined, tech., bbls., works..lb. .29 - —
USP, bbls.....lb. .31 - .33
Magnesium arsenate, bgs., cans, works..lb. .20 - .30
Bromide, dms.....lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald..lb. .07¼- —
l.c.l., frt., alld.....lb. .08¼- —
bbls., c.l., frt. equald.....lb. .08½- —
l.c.l., frt. alld.....lb. .09½- —
kgs., c.l., frt. equald.....lb. .09½- —
l.c.l., frt. alld.....lb. 10¾- —
USP, bgs., c.l., frt. equald..lb. .09 - —
l.c.l., frt. alld.....lb. .10 - —
bbls., c.l., frt. equald.....lb. .09½- —
l.c.l., frt. alld.....lb. .10½- —
kgs., c.l., frt. equald.....lb. .10¾- —
l.c.l., frt. alld.....lb. .11¾- —

Magnesium carbonate is quoted frt. alld. to N. J., except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean, and Salem counties, and to Phila. county, Pa. Frt. equald, with N. Y. C. on all other destinations.

Chloride, anhyd., bbls., dlvd.....lb. .12¾- —
flake, bbls., c.l., works.....ton.40.00 - —
l.c.l., works.....ton.44.00 -46.00
Fluoride, bbls.....lb. .20 - .25
Hydroxide, medicinal, bbls., dms., kgs..lb. .29 - .30
Hypophosphite, cns.....lb. 1.45 - —
Laurate, bbls.....lb. .46 - .47
Metal, 98.8%, ingots, cs., works...lb. .20½- —
sticks, cs.....lb. .34 - .38
Oleate, precip., bbls.....lb. .40½- —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works.....lb. 1.00 - 1.05
Phosphate, tribasic, USP, bbls....lb. .62 - .67
Silicate (see Talc).
Silicofluoride, bbls., works.....lb. .10 - —
Stearate, ctns., 2,000 lbs. to c.l...lb. .48 - —
smaller lots.....lb. .49 - —
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000 lbs.....lb. .37 - —
smaller lots.....lb. .42 - —
Magnesite, calcined, powd., bgs., c.l., mines, Calif....ton.60.00 - —
Magnesite, dead-burnt, bulk, c.l., Chewalah, Wash..ton.24.00 - —
Maleic anhydride dms., c.l.....lb. .25 - —
l.c.l.....lb. .26 - —
Malva flowers, blacks, bls.....lb. No stocks
Blue, bls.....lb. 1.45 - 1.50
Leaves, bls.....lb. .40 - .41
Manaca root, bls.....lb. .49 - .50
Mandrake root, bls.....lb. .40 - .45
Manganese acetate, dms.....lb. .25½- —
Arsenate, bgs.....lb. .12 - .12½
Borate, tech., bbls.....lb. .16 - .18
Carbonate, bbls.....lb. .19 - —
Chloride, anhyd., dms., works....lb. .18 - .19
Dioxide, African, battery, 84%-87% bbls., 28-40 tons, works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
burlap bgs., c.l., works, ton.71.75 - —
l.c.l., works.....ton.74.75 -79.79
paper bgs., c.l., works, ton.70.00 - —
l.c.l., works.....ton.73.00 - —
85-90%, bbls., c.l., works..ton.74.00 - —
smaller lots, works.....ton.77.00 -82.00
Glycerophosphate, fib. dms.....lb. 4.25 - —
Hydrate, bbls., dlvd.....lb. .26 - —
Iodide jars.....lb. 5.55 - —
Linoleate, liquid, 4.35% Mn, dms..lb. .44¼- —
solid, precip., 8.2% Mn, bbls.....lb. .45¾- —
Metal, cs., dlvd. East.....lb. .30 - .32
Naphthenate liquid, 6% Mn, dms..lb. .21 - —
solid, 10% Mn, dms.....lb. .33¼- —
Oleate, fused, bbls.....lb. .44¾- —
Resinate, fused, 3½% Mn, bbls....lb. .09 - .10½
precip., dms.....lb. .20 - —
Sulphate, anhyd., dms., works..lb. No stocks
feed grade, 77-80% bgs.....lb. .04 - .06
fertilizer grade, 65%, bgs., c.l., dlvd. E..ton.56.00 - —
l.c.l., dlvd. E. of Balto. or Cincinnati..ton.63.00 - —
industrial grade, 80% bgs.....lb. .05 - .05¾
75%, bgs., c.l., dlvd. East....ton.64.50 - —
l.c.l., same basis.....ton.71.50 - —
Tallate, liquid, 4% Mn, dms.....lb. No prices
solid, 8% Mn, dms.....lb. No prices
Mangrove bark, W. Africa, 38% tannin, c.l., ex dock..ton.60.00 - —
Manna, flake, large, cs.....lb. 1.75 - 2.00
small, cs.....lb. .80 - .85
Mannitol, com'l, bbls., works.....lb. .38 - .43
reagent, cs., works.....lb. .85 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
Chilean, bls.....lb. .12 - .12½
futures, bls.....lb. .11½- .12
French, bls., futures.....lb. .52 - .53
Matico leaves, bls.....lb. .17 - .18
Menadione, USP, bots., works..gram. .10 - —
Menthol, natural, USP, Brazilian, cns..lb. 9.20 - 9.25
synthetic, tech., cns.....lb. 6.00 - 6.40
USP, laevo, cns.....lb. 8.90 - 9.95
racemic, cns.....lb. 7.60 - 8.00
Menthyl salicylate, tins.....lb. 3.00 - 3.10
Mercury bichloride (see Corrosive sublimate).
Bisulphate, dms.....lb. 2.13 - 2.15
Chloride (see Calomel).
Cyanide, cryst., powd.....lb. 3.27 - 3.32
Iodide, red, NF, dms.....lb. 4.17 - —
Yellow, NF, fib, dms.....lb. 4.27 - —
Metal (see Quiuksilver).
Oxide, red, NF (see Red precipttate).
yellow, tech. (see Yellow, mercury oxide).
USP, fib, dms.....lb. 2.44 - 2.46
Mesityl oxide, dms., c.l., dlvd.....lb. .13 - —
l.c.l., dlvd. .....lb. .13¼- —
tanks, dlvd. .....lb. .11½- —
Metachloranilin, dms., works.....lb. .75 - —
Metacresol, 98%, dms., works.....lb. .85 - —
Metanitroparatoluidin, bbls. .....lb. 1.21 - 1.22
Metaphenylenediamine, kgs.....lb. .72 - —
Metatolylenediamine, kgs.....lb. .77 - —
Methanol, natural, all grades, group A, dms., extra, c.l., E. of Miss. gal. .63 - —
l.c.l., same basis.....gal. .73 - —
tanks, same basis.....gal. .60 - —
group B, dms., incl., c.l., frt. alld. gal. .67 - —
l.c.l., same basis.....gal. .78 - —
tanks, same basis.....gal. .60 - —
Prices on natural methanol W. of Miss. 3c. higher
synthetic, dms., c.l., zone 1, frt. alld. gal. .34½- .37½
2, frt. alld. or dlvd.....gal. .37½- .40½
3, frt. alld.....gal. .41½- .44½
4, frt. alld.....gal. .41½- .44½
l.c.l., zone 1, frt. alld. or dlvd.gal. .37 - .40
2, frt. alld.....gal. .27 - .30
3, dlvd. S. E. and L. A.....gal. .42 - .45
4, frt. alld. or dlvd.....gal. .52½- .55½
tanks, zone 1, frt. alld.....gal. .24 - .27
2, frt. alld.....gal. .27 - .30
3, frt. alld.....gal. .29 - .32
4, frt. alld.....gal. .29 - .32

Synthetic methanol zones are: Zone 1—Conn., Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C., Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo., Zone 3—Los Anegeles and San Francisco. Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco), Ida., Mont., Nev., Ore., Utah and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.

Methyl abietate, non-ret. dms., c.s., dlvd..lb. 13¾- —
l.c.l., dlvd.....lb. 13⅝- —
hydrogenated, non-ret, dms., c.l., dlvd..lb. .15½- —
l.c.l., dlvd. .....lb. .16 - —
Acetate, CP, 97-99%, dms., c.l., E. of Miss..lb. .10½- .12
W. of Miss. .....lb. .11½- .12
l.c.l., E. of Miss.....lb. .11 - .14
W. of Miss.....lb. .12 - 13½
tanks, E. of Miss.....lb. .09½- —
W. of Miss.....lb. .10½- —
tech. dms., c.l., E of Miss.....lb. .07 - .09
W. of Miss.....lb. .08 - —
l.c.l., E. of Miss.....lb. .07½- .11
W. of Miss.....lb. 08½- 10¼
tanks, E. of Miss.....lb. .06 - —
W. of Miss.....lb. .07 - —
Acetoacetate, dms., c.l., frt alld. E. lb. .42 - —
l.c.l., same basis.....lb. .42½- —
Methyl acetoacetate prices, frt. alld. W., ½c.
tanks, zone 1, frt. alld.....lb. .24 - —
Acetone, natural, group A, dms., extra, c.l., E. of Miss., frt. alld.gal. .50 - —
l.c.l., same basis.....gal. .57 - —

Natural Methyl acetone group A prices W. of Miss. 3c. per gal higher.

group B, dms., incl., c.l., E. Miss., frt. alld..gal. .67 - —
l.c.l., same basis.....gal. .78 - —
tanks, same basis.....gal. .60 - —
synthetic, dms., c.l., works, frt. alld E..gal. .53¾- —
frt. alld. W.....gal. .56½- —
l.c.l., works, frt. alld. E..gal. .57 - —
frt. alld. W.....gal. .59 - —

Lobelia Herb—Methylal

Methyl acetone, synth., tanks, works, frt. alld. E..gal. .44½- —
frt. alld. W.....gal. .46½- —

Methyl acetone, synth. East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory, all States West of those four.

Alcohol (see Methanol).
Anthranilate, dms. .....lb. 2.20 - 2.50
bots., cns.....lb. 2.20 - 2.60
Benzoate, cns.....lb. .45 - 1.20
Bromide, cns.....lb. .63 - .65
cyls. .....lb. .55 - .70
Chloride, indust., cyl., works...lb. .16 - —
tanks, multi-unit, works.....lb. .14¾- —
single-unit, works .....lb. 14 - —
refrigeration, indust. consumers, refrigeration machinery mfrs., cyls., dlvd..lb. .33 - —
retail refrigeration consumers or service men, cyls., dlvd..lb. .41 - —
Cinnamate, cns.....lb. 1 43 - 3.50
Formate, dms.....lb. .89 - —
Heptin carbonate, bots. .....lb.37.00 -58.00
Iodide, bots.....lb. 3.00 - 3.25
Lactate, dms, l.c.l., works.....lb. .35 - —
Methacrylate, M-1, dms., works..lb. .47 - —
cns., works.....lb. .48 - .53
P-1, cns., works.....lb. .60 - —
Salicylate, dms., 500 lbs.....lb. .40 - —
25-50 lbs.....lb. .45 - —
Methylal, crude, dms., c.l., works...lb. .04 - —
l.c.l., works .....lb. .05 - —
tanks, works .....lb. .02 - —
refined, 95%, dms., c.l.....lb. .07 - —
l.c.l., works .....lb. .08 - —
tanks, works .....lb. 04½- —

SANTOBANE
(Monsanto DDT)

Santobane is widely accepted because its uniform, free-flowing, granular characteristics permit it to be readily solubilized, emulsified or milled. Proper formulations are highly effective *in all 4 major insect groups* — household, premise, animal and agricultural. (Recent U.S.D.A. experiments have shown DDT to be effective against almost 8 out of 10 of the insects tested.)

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Santobane kills insects in two of the three possible ways:
1. As a stomach poison
2. As a contact poison

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Santobane can be used in *all* types of formulations:
Dusts • Wettable Powders
Solutions • Aerosols
Emulsifiable Solutions

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Please send me further information and technical data on Santobane:

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Company _____
Address _____
City _____ State _____

SERVING INDUSTRY . . WHICH SERVES MANKIND

Methylamyl Ketone—Oil, Cassia

Methylamyl ketone, cns., dms., works, lb. No stocks

Methylcellulose, special vis. (4,000 cps.), llb. ctns., 2,000 lbs. or more, frt. alld..lb. .70 - —
smaller lots, frt. alld. on 100 lbs. lb. .75 - .80
standard vis. (15-1,500 cps.), 5lb. ctns., 2,000 lbs. or more..lb. .63 - —
smaller lots, frt. alld. on 100 lbs. lb. .68 - .73

Methylcyclohexane, 98-100%, dms., works..lb. .16 - —

Methylcyclohexanol, 98-100%, dms., works..lb. .23 - —

Methylcyclohexanone, 98-100%, dms., works..lb. No stocks

Methylene blue, tech. (see Dyes, coal-tar).
USP, 100-lb. lots, kgs., frt. equald. lb. 2.42 - —
50-lb. lots, kgs., same basis..lb. 2.52 - —
25-lb. lots, kgs., same basis..lb. 2.57 - —

Chloride, indust., dms., c.l., dlvd. E. lb. .12½- —
l.c.l., dlvd., E.....lb. .13½- —
tanks, dlvd., E.....lb. .11½- —

Methyleneanilin, dms., ton lots, frt. alld..lb. .36 - —
smaller lots, same basis.....lb. .37 - —

Methylethyl ketone, dms., dlvd.....lb. .11½- —
l.c.l., dlvd.....lb. .12 - —
tanks, dlvd.....lb. .10 - —

Methylhexyl ketone, tech., dms., works. lb. .60 - —

Methylionone, A, cns.....lb. 6.55 - 8.80
D, cns.....lb. 7.50 - 9.55
prime, cns.....lb. 4.55 - 6.40

Methylisobutyl carbinol (see Carbinol, methylisobutyl).

Methylisobutyl ketone, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd.....lb. .14½- —
tanks, dlvd.....lb. .12½- —

Methylnaphthyl ketone, cns.....lb. 3.00 - 3.75

Methylpentanediol, dms., works, dlvd. lb. .21½- —
l.c.l., works, dlvd.....lb. .22½- —
tanks, works, dlvd.....lb. .20 - —

Methylthionine chloride (see Methylene blue).

Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works..lb. .03⅝- —
roofing, 20 to 80 mesh, works....lb. .03⅜- —
wet-grd., biotite, bgs., c.l., works, frt. alld. E..lb. .05½- —
l.c.l., ex whse. or frt. alld. E. lb. .06¼- —
extra fine, bgs., c.l., works, frt. alld. E..lb. .05½- —
l.c.l., ex whse. or frt. alld. E. lb. .06¼- —
paint or lacq., bgs., c.l., works, frt. alld. E..lb. .07 - —
l.c.l., ex whse. or frt. alld. E.lb. .07¾- —
rubber, bgs., c.l., works, frt. alld. E..lb. .06¾- —
l.c.l., ex whse. or frt. alld. E. lb. .07½- —
wallpaper, bgs., c.l., works, frt. alld. E..lb. .07 - —
l.c.l., ex whse. or frt. alld. E. lb. .07¾- —
white, extra fine, bgs., c.l., works, frt. alld. E..lb. .07 - —
l.c.l., ex whse. or frt. alld. E. lb. .07¾- —

Mica, wet-grd. W. of Miss R., ½c. higher, W. of Rockies, 1c. higher.

Milk powder, skimmed, roller, bbls., c.l..lb. .15¾- .16¼
spray, bbls., c.l.....lb. .16¼- .17¼
Whole, roller, bbls., c.l.....lb. .46 Nom.
spray, bbls., c.l.....lb. .44 - .46

Sugar, edible, bbls., works, 30,000-lb. lots..lb. .24 - —
2,000-lb. lots .....lb. .24¾- —
200-1,800-lb. lots .....lb. .25¼- —
USP, bbls., works, 3,000-lb. lots.lb. .26 - —
2,000-lb. lots .....lb. .26¾- —
200-1,800-lb. lots .....lb. .27¼- —

Mineral spirits (see Petroleum, mineral spirits).

Molasses, blackstrap, tank, U. S. port..gal. .37 - —

Molybdate orange (see Orange, molybdate).

Molybdenum metal, 99% Mo. powd., kgs..lb. 2.60 - 3.00
Trioxide, pure, kgs., works, basis Mo. content..lb. .95 - —
technical, kgs., works, basis Mo. content..lb. .80 - —

Monochlorobenzene, dms., c.l., works, frt. equald..lb. .06 - .07½
l.c.l., works .....lb. .06½- .08½
smaller containers, works.....lb. .09 - .10
tanks, works, frt. equald.....lb. .05½- .06

Monoethanolamine, dms., c.l., frt. alld. E..lb. .25½- —
l.c.l., same basis.....lb. .26½- —
smaller containers, same basis....lb. .29¼- —
tanks, same basis.....lb. .24 - —

Monoethylamine, dms., c.l., wks. basis 100%..lb. .17 - —
l.c.l., same basis.....lb. .18 - —
tanks, same basis.....lb. .15 - —

Monomethylamine, anhydrous, cyl., works, basis 100%...lb. .34½- .44½
25%-40%, dms., c.l., same basis..lb. .34 - —
tanks, same basis.....lb. .30 - —

Monomethylpara-aminophenol sulphate, dms..lb. 2.40 - 2.90

Monononylnaphthalene, tanks, wks.lb. .16 - —
Monosodium glutamate (see Sodium glutamate, monobasic).
Phosphate (see Sodium phosphate, monobasic).

Morphine, cns., 25 ozs.....oz. 12.40 - —
Acetate, cns., 25 ozs.....oz. 9.90 - —
Hydrobromide, cns., 25 ozs.....oz. 9.90 - —
Hydrochloride, cns., 25 ozs.....oz. 9.90 - —
Sulphate, cns., 25 ozs.....oz. 9.90 - —

Morpholine, dms., l.c.l., works.....lb. .67 - —
smaller containers, works.....lb. .75 - —

Mountain ash berries, bgs.....lb. .75 - .76

Mullein leaves, bls.....lb. .12 - .13

Musk, nat., Tonquin, grains, bots..oz. 38.00 -55.00
synthetic, ambrette, cns., 5-lb..... 8.00 -14.25
Ketone, cns., 100 lbs. or more..lb 4.60 - 4.95
25 lbs. .....lb 4.70 - 5.05
5 lbs. .....lb 4.60 - 5.20
Xylol, cns. .....lb 1.60 - 1.80
25 lbs. .....lb 1.70 - 1.90
5 lbs. .....lb 1.80 - 2.00

Muskroot, bls. .....lb No stocks.

Mustard seed, Calif., brown.....lb. .20 - .23
Danish, yellow, bgs.....lb. .16 - .16½
Dutch, yellow, bgs.....lb. .16 - .16½
futures, bgs.....lb. .17½- .18
Montana, brown, bgs., source...lb. .12½- .13
Oriental, bgs.....lb. .07½- .08
new crop futures, source....lb. .07½- .08
yellow, bgs., new crop futures, source...lb. .16 - .16½
Washington, yellow, bgs.....lb. .16 - .16½

Myrobalans, J1, good quality, ex dock. ton. 51.00 -55.00
J2, ex dock.....ton. 47.00 -48.00

N

Naphtha, painters (see Petroleum naphtha, V. M. & P.).
Solvent (see S).

Naphthalene, dom., crude, 74° bgs., tanks, same basis..lb. .04½- .05¾
78°, bbls., c.l., same basis....lb. .041- .065
l.c.l., same basis.....lb. .0435- .07
tanks, same basis.....lb. .04½- .06
refined, industrial, bbls.....lb. .10¾- —
bgs., c.l., same basis.....lb. .09¾- —
tanks, same basis.....lb. .08¾- .09¼
balls, flakes, wholesalers, jobbers, 50-lb. cs., c.l., same basis..lb. .12½- —
1-lb. pkgs., c.l., same basis.lb. .13½- —

Neocinchopen, USP, dms., works..lb. 7.09 - 7.10

Nepheline syenite, glass, 24 mesh, bulk, Rochester, N. Y.....ton. 14.25 - —
pottery, 200 mesh, bulk, Rochester, N. Y..ton. 18.25 - —
Nepheline syenite in bgs., $3 per ton higher than bulk.

Nerolin, crys., cns.....lb. 1.70 - 2.00

Niacin (see Acid, nicotinic).

Niacinamide (see Nicotinamide)

Nickel, carbonate, bbls.....lb .39 - —
Chloride, bbls. .....lb .20 - —
Cyanide, bots., dms.....lb. 1.75 - 2.00
Metal, electro cathodes, cs.....lb. .33⅜- —
Oxide, black, bbls.....lb. .35 - .38
Sulphate, bbls. .....lb. .14 - .14½

Nicotinamide, USP, dms., works.kilo. 9.50 - 9.80
Nicotine sulphate, 40%, dms., dealers, frt. alld. over 50 lbs..lb .388 - —
tins, dealers.....lb. 1.105 - —
Nikethamide, bots, cbys.....lb. 5.50 - 6.60

Nitercake, bulk, works.....ton. 20.00 -24.00
Nitrobenzene, dbl. dist., dms., c.l..lb. .08½- .08¾
l.c.l. .....lb. .09½- .10
tanks .....lb. .07½- .07¾
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, 5-6, 15-20, 30-40, and 60-80 secs., bbls., c.l., works, dry weight..lb. .26 - —
l.c.l., same basis.....lb. .27 - .29
18-25 cps., 125-175 secs., bbls., c.l., same basis..lb. .28 - —
l.c.l., same basis.....lb. .29 - .31
250-400 secs. and 600-1,000 secs., bbls., c.l., same basis..lb. .31 - —
l.c.l., same basis.....lb. .32 - .34
Nitrocellulose, spirit-soluble, 30-35 cps., ¼, ½, 5-6 and 40-60 secs., bbls., c.l., same basis..lb. .32 - —
l.c.l., same basis.....lb. .33 - .35

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Barrels extra, but returnable.

Nitrogen solution, tanks, works, N.ton. 107.00 -114.84
Nitrogenous process tankage, bulk, works, ammo. unit ton. 5.00 - 6.50
Sewage sludge, bulk, works, unit ton. 4.15 + 40-
Nitromethane, dms., c.l., works....lb. .25 - —
Nitronaphthalene, bots.....lb. .24 - .25
Nitropropane, 1, dms., works.....lb. .25 - —
2 dms., works.....lb. .25 - —
Nonylnaphthalene blend (mono and di), tanks, works..lb. .14 - —
Nutgalls, bgs. .....lb .44 - .50
Nutmegs, East Indian, bgs., futures, afloat..lb. .57 - .61
West Indian, bgs.....lb. .60 - .61
futures .....lb. .58 - .59
Nux vomica, bls.....lb. .09 - .10
powdered, bbls., bxs.....lb. .12 - .13

O

Oakbark extract, 25% tannin, bbls., c.l., works..lb. No stocks
Octane, 100°-140° C, industrial grade, dms., c.l., group 3..gal. .18 - —
l.c.l. .....gal. .21 - .60
tanks, group 3.....gal. .13½- —
Octanol (see Alcohol, ethylhexyl).
Oil, almond, bitter, artificial (see Benzaldehyde).
Bitter, F.P.A., bots.....lb. 4.45 - 5.00
NF, bots.....lb. 4.90 - —
Sweet, dms., cns.....lb. .69 - 1.80
Angelica root, bots.....lb. 120.00 -250.00
Seed, bots.....lb. 110.00 -200.00
Anilin (see A).
Anise, USP, Chinese, dms.....lb. .90 - 1.25
Russian, cns.....lb. 3.25 - 3.75
Apricot kernel, cns.....lb. .65 - .85
Avocado, cns., dms.....lb. 1.00 - 2.10
Balsam, tolu, tanks.....lb. .28½- —
Bay, NF, Puerto Rican, 50-55%, cns. lb. 1.20 - 2.25
55-60%, cns.....lb. 1.20 - 2.35
60-65%, cns.....lb. 2.50 - —
West Indian, 50-55%, cns.....lb. 1.20 - 1.65
Bergamot, artif., cns.....lb. 3.50 - 4.25
natural, Italian, cns.....lb. 5.00 - 6.00
Birch (see Oil, sweet birch).
Birchtar, crude, cns.....lb. .95 - 1.76
rectified, cns. .....lb. No stocks.
Bois de rose, Brazil, cns.....lb. 2.00 - 4.00
Mexican (see Oil, lignaloe wood).
Bone, dms., works.....gal. .65 - .70
Cajeput, tech., dms.....lb. 2.35 - 2.45
redistilled, USP IX, cns.....lb. 2.95 - 3.25
Calamus, cns. .....lb. 20.00 -28.00
Camphor, natural, white, cns.....lb. .60 - .75
synthetic, dms.....lb. .15 - .40
Cananga natural, cns.....lb. 6.00 - 9.10
rectified, cns. .....lb. 9.35 -12.60
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns.....lb. 5.15 - 6.50
Cardamom, bots. .....lb. 23.50 -31.50
Cassia, USP, cns.....lb. 2.40 - 3.75

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• Hundreds of products that formerly were associated with disagreeable odors are now enjoying respectability and acceptance due to the art of industrial perfuming.

• Felton Chemists and Perfumers daily apply the practical science of industrial perfuming by combining the CORRECT PERFUME with a particular product to give it *Extra* Acceptance and *Extra* Saleability.

FELTON INVITES YOU TO SEND SAMPLES OF YOUR PRODUCTS FOR CORRECT PERFUMING TO CONVINCE YOU THAT

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- LUBRICATING OIL AND GREASE
- CUTTING OILS
- GLUES AND PASTES
- INSECTICIDES
- DISINFECTANTS
- LINOLEUM
- LATEX
- PRINTING INKS
- PAINTS, VARNISHES AND LACQUERS
- TEXTILES
- RUBBER
- FUR
- FEATHERS
- COTTON BATTING
- PLASTICS
- LAUNDRY STARCH
- TEXTILE FINISHING OILS
- WAXES
- LEATHER

Remember!
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Oil, castor, blown, ret. dms., c.l....lb. .30 - .30½
l.c.l. ....lb. .31 - .31½
cold-pressed, USP, ret. dms., c.l., lb. .28¼- —
l.c.l. ....lb. .29¼- —
tanks ....lb. .27 - .27¼
dehydrated, bodied, dms., c.l....lb. .30¾- —
l.c.l. ....lb. .31½- —
tanks ....lb. .30 - —
unbodied, dms., c.l. ....lb. .29¾- —
l.c.l. ....lb. .30½- —
tanks ....lb. .29 - —
No. 3, tech., dms., c.l. ....lb. .27½- —
l.c.l. ....lb. .28¼- —
tanks ....lb. .26½- —
sulphonated, 50% (48% fat), dms. lb. .16½- .17¼
75% (60-62% fat), dms. ....lb. .23 - .24
Cedarleaf, USP, cns., dms. ....lb. 2.15 - 2.85
Cedarwood, cns. ....lb. .65 - .95
dms. ....lb. .61 - .86
Celeryseed, bots. ....lb. 15.00 -20.00
Chaulmoogra, NF, cns., dms. ....lb. .56 - —
Chinawood (see Oil, tung).
Cinnamon bark, bots. ....lb. 52.50 -62.00
Leaf, Ceylon ....lb. 1.50 - —
Seychelle ....lb. 1.20 - —
Citronella, Ceylon, cns. ....lb. .75 - 2.75
Java, cns. ....lb. 1.25 - 4.75
Clove, USP, cns. ....lb. 1.30 - 1.70
Coconut, crude, tanks, Atlantic ports, lb. .25½- —
Pac. coast ....lb. .24½- —
refined, Cochin type, tax incl., dms., c.l. ....lb. 30½ Nom.
deodorized, tax incl., dms., l.c.l. lb. .33 Nom.
Cod, Newfoundland, dms. ....lb. .22 - .24
Codliver, USP, dms. ....gal 2.40 - 3.50
Coriander, bots. ....lb. 30.00 -35.00
Corn, crude, tanks, works ....lb. .32 - —
foots, acid, 95%, tanks, dlvd. E. lb. .11½- —
raw, 50%, tanks, dlvd. E. ....lb. .05¾- —
refined, tanks, works ....lb. .35½- —
Cottonseed, crude, tanks, works....lb. .29 - —
foots, acid 95%, tanks, dlvd. E. lb. .11½- —
raw, 50%, tanks, dlvd. E. ....lb. .05¾- —
deodorized, winterized, salad, dms., c.l. ....lb. .36 Nom.
l.c.l. ....lb. .37 - .38
tankcars ....lb. .34 - .34½
Creosote (see C).
Croton, NF, cns. ....lb. 4.75 - 5.50
Cubeb, USP, cns. ....lb. 6.75 -10.00
Crude (see Petroleum, crude).
Cumin, bots. ....lb. 6.25 -11.50
Cypress, bots. ....lb. 11.00 -15.00
Degras (see D).
Dillseed, bots. ....lb. 6.00 - 7.50
Dillweed, bots. ....lb. 6.00 - 7.00
Dip (see D).
Erigeron, USP, cns. ....lb. 2.30 Nom.
Eucalyptus, rect., USP, 80-90%, cns. lb. 1.05 - 1.4
70-80%, cns. ....lb. .90 - 1.30
Fennel, sweet, cns. ....lb. 3.05 - 4.50
Fir, Canada, cns. ....lb. 2.65 - 3.25
Fishliver, 8,000-15,000 A units per gram., dms., Pacific Cst., per million units. .18 - —
15,000-30,000 units, dms., Pacific Cst., per million units. .25 - —
30,000-50,000 units, dms., Pacific Cst., per million units. .27 - —
50,000-100,000 units, dms., Pacific Cst., per million units. .30 - —
100,000 to 150,000 units, dms., Pacific Cst., per million units. .32 - .35
150,000 to 200,000 units, per million units. .37 - —
concentrates, 500,000 A units, per gram, dms., Pacific Coast, per million units. .42 - —
1,000,000 A units, per million units. .44 - .45

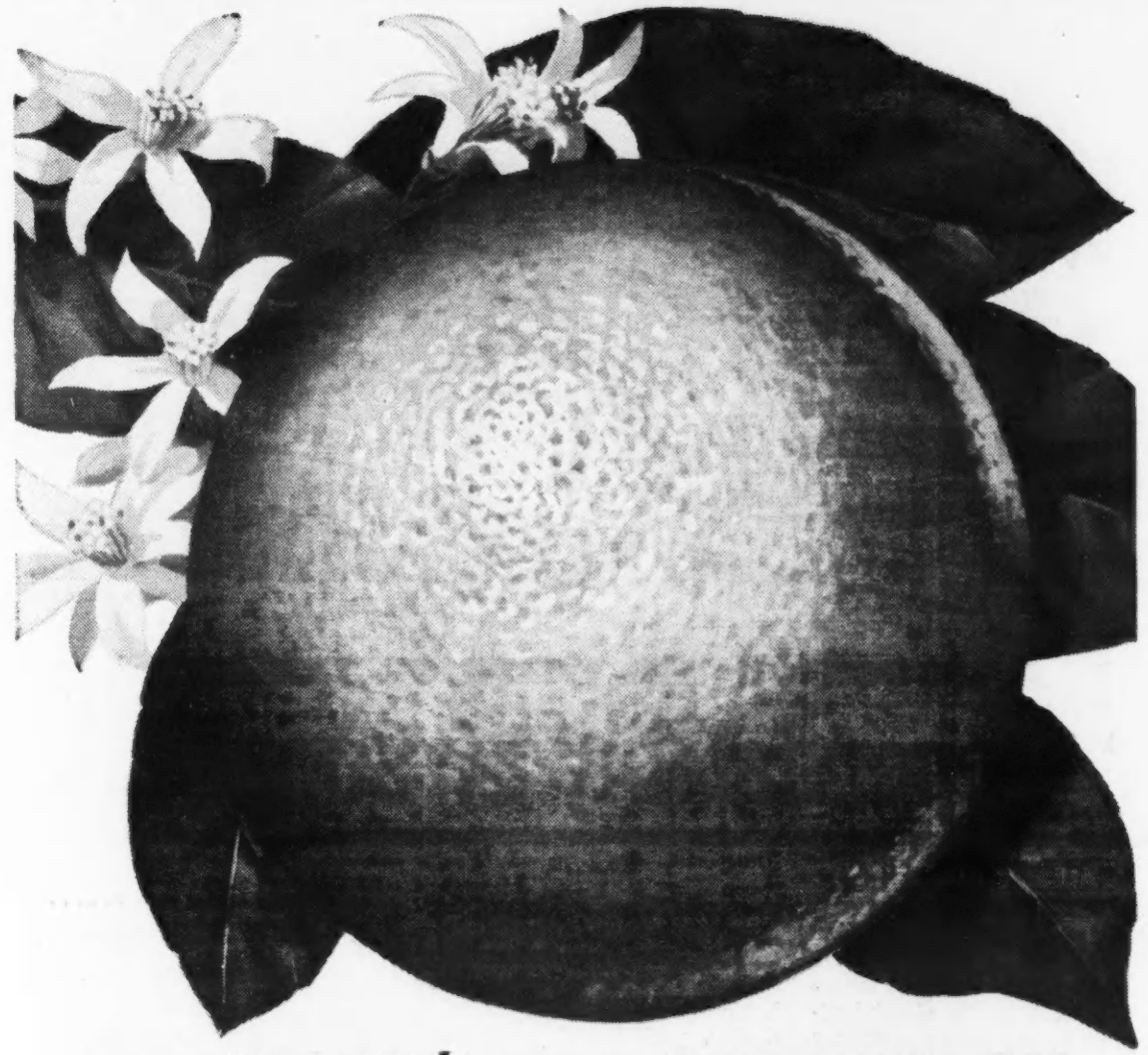
Fish oil prices include the 1891 conversion factor.

Fuel (see Petroleum, fuel oil).
Garlic, pure, bots. ....oz. 15.00 - —
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns. ....lb. 15.25 -21.00
Bourbon, cns. ....lb. 11.50 -14.50
Russian, cns. ....lb. No stocks
Turkish (see Oil, palmarosa).
Ginger, dist., bots. ....lb. 8.00 -13.00
Grapefruit, Florida, cns. ....lb. 2.25 - 2.50
California, bots, cns. ....lb. 1.70 - 2.60
Grease, No. 1, dms. ....lb. .28½- .29
winter, strained, dms. ....lb. .32½- .33
prime, burning, dms. ....lb. .33½- .34
Guaiacwood, cns. ....lb. 2.05 - 4.15
Hemlock, cns. ....lb. 2.25 - 2.75
Herring, crude, tanks, Pac. coast..lb. No prices
Juniper berry, dom., bots. ....lb. 6.35 -12.50
imported, USP ....lb. 7.50 -12.00
Tar, USP (see Juniper tar).
Wood, tech., cns. ....lb. .65 - 1.00
Lard (see Oil, grease).
Laurel, bots. ....lb. 20.00 Nom.
Lavandin, cns. ....lb. 1.75 - 3.75
Lavender flower, French, 38-42° ester, lb. 6.25 -10.15
30-32% ester ....lb. 4.25 - 8.00
Russian, 25-lb. ....lb. 11.75 - —
Spike, Spanish, pure, cns. ....lb. 1.50 - 2.25
tech., cns. ....lb. 1.75 - 2.75
Lemon, natural, USP, Calif., cns..lb. 3.10 - 3.60
Messina, cns. ....lb. 3.50 - 4.05
terpeneless, bots. ....lb. 40.00 -50.00
Lemongrass, cns., dms. ....lb. 1.45 - 2.20
Lignaloe seed, Mexican, cns. ....lb. 4.50 - 4.80
Wood, Brazilian (see Oil, bois de rose).
Mexican, cns. ....lb. 3.60 - 5.20
Lime, distilled, Mexican, cns. ....lb. 3.75 - 3.45
West Indian, cns. ....lb. 4.25 - 6.30
expressed, West Indian, cns. ....lb. 9.50 -11.75
terpeneless, bots ....lb. 35.00 -42.00
Linseed, raw, dms., c.l. ....lb. .3430-
l.c.l. ....lb. .3460- .3530
tankcars ....lb. .3320- —
tankwagon ....lb. .3340- —
Boiled linseed oil .007 higher than raw
Linseed replacement, dms. ....lb. .2960- .3090
Lubricating, at refinery, ex tax,
Group 3, bright stock, 150-160 vis., 10-25 p.p. tanks..gal. .285 - —
neutral, 300 vis., No. 3, col., 0.10 pour, tanks..gal. .21 - .22
200 vis., No. 3, col., 15-25 pour, tanks..gal. .18 - .19
145-155 vis., No. 3, color, 10-25 pour, tanks..gal. .285 - —
Penna., W., cylinder, 600-680 flash, tanks..gal. .33 - .38
600-650 steam refd., tanks, gal. .37 - —
neutral, 70° F., No. 3 color, 150 vis., 25 pour, tanks..gal. .37 - .39
200 vis., 25 pour, tanks.gal. .39 - .41
South Texas, neutral, pale 200 vis., 2½-4 pour, tanks..gal. .11 - .12
red, 200 vis., 4-6½ pour, tanks..gal. .11- .12½
Mace, dist., cns., dms. ....lb. 5.20 - 8.75
Mandarin, Brazilian, cns. ....lb. 5.75 - 8.40
Italian, cns. ....lb. 8.50 -10.00
Menhaden, crude, tanks, Balto....lb. .22 Nom.
refined, alkali, dms., l.c.l. ....lb. .2790- —
kettle-bodied, dms., l.c.l. ....lb. .2960- —
light-pressed, dms., l.c.l. ....lb. .2640- —
tanks ....lb. .25 - —
Mineral, white (see Oil, white mineral).
Mirbane (see Nitrobenzene).

Oil, mustard, synthetic, USP, cns..lb. 1.45 - 1.70
Seed, exp., dms. ....lb. .29½ Nom.
Neatsfoot, 15°, dms. ....lb. .50 - .50½
20°, dms. ....lb. .48 - .48½
30°, dms. ....lb. .45 - .45½
Neroli, French, bots. ....lb. 195.00 -590.00
Haitian, bots. ....lb. 180.00 -200.00
Nutmeg, dist., cns. ....lb. 5.00 - 8.75
Ocotea cymbarum, dms. ....lb. .75 - 1.15
Olticica, liquid, dms., c.l. ....lb. .25½ Nom.
l.c.l. ....lb. .26 Nom.
tanks ....lb. .25 Nom.
Oleo, extra, tcs., Chicago ....lb. .28 - —
Olibanum, bots. ....lb. 4.50 - 6.25
extra fine ....lb. 6.25 -10.50
Olive, denat., dms. ....gal. No stocks
edible, Calif., dms. ....gal. 5.25 Nom.
imported, dms. ....gal. 5.20 - 5.90
foots, dms., c.l. ....lb. No prices
tankcars ....lb. No prices
sulphonated, 50% (46% fat), dms., c.l. ....lb. No stocks
l.c.l. ....lb. No stocks
75% (62% fat), dms., c.l. ....lb. No stocks
l.c.l. ....lb. No stocks
Orange, sweet, natural, dist., cns. lb. .80 - 1.25
expressed, USP, Brazilian, cns. lb. 1.40 - 1.95
Calif., cns. ....lb. 1.70 - 2.10
Florida, cns., dms. ....lb. 1.40 - 1.85
Messina, coppers ....lb. 4.50 - 6.25
West Indian, cns. ....lb. 2.25 - 3.75
sesquiterpeneless, bots. ....lb. 80.00 -135.00
Origanum, Spanish, cs. ....lb. 3.30 - 3.50
Palm, Niger, dms. ....lb. No prices
Palmarosa, cns. ....lb. 6.00 - 9.00
Palmkernel, crude, bulk, c.i.f., N. Y. lb. No prices

Oil, paraffin, pale, 100-110 vis. at 100° F, tanks, works..gal. .10 - —
Patchouli, cns. ....lb. 11.50 -45.00
Peanut, crude, tanks, works. ....lb. .29½- .30
foots, acid, 95%, tanks, dlvd. E..lb. .11½ Nom.
raw, 50%, tanks, dlvd. E. ....lb. .05¾ Nom.
refined, tanks, mills. ....lb. .35 Nom.
Pennyroyal, USP, dom., dms., cns. lb. No stocks
import, cns. ....lb. 3.00 - 5.00
Peppermint, natural, dms. ....lb. 7.60 - 8.75
redist., USP, dms. ....lb. 8.25 - 9.25
Perilla, crude, dms. ....lb. No stocks
Petitgrain, Paraguay, cns. ....lb. 3.15 - 4.80
Pimento berry, dms. ....lb. 4.25 - 6.50
leaf, cns. ....lb. 1.75 - 3.25
Pine, dest. dist., dms. incl., c.i., works, South..gal. .70 - —
l.c.l., works, East ....gal. .79 - —
tanks, works, South ....gal. .61 - —
steam-dist., dms., ex whse., East..lb. .11 - —
Pineneedle, Canadian, 25-lb. cans..lb. 2.20 - —
Siberian, cns. ....lb. 3.05 - 3.75
Swiss, 25-lb. cans. ....lb. 4.00 -14.50
Putty, petroleum, heavy, dms..gal. .18 - —
tankwagon ....gal. .13½- —
light, dms. ....gal. .16½- —
tankwagon ....gal. .12½- —
Rapeseed, tankcars ....lb. .32 - —
Red, single dist., dms. ....lb. .31¾- .32¾
tanks ....lb. .30½- —
double dist., dms. ....lb. .34¾- .35¼
tanks ....lb. .33 - —
Rose, natural, coppers ....oz. 16.00 -40.50
Rosemary, Spanish, tech., cns., dms. lb. .90 - 1.50
USP, cns., dms. ....lb. 1.15 - 1.60

Oil, rosin, 1st rectified, dms. ....gal. .66 - —
2d rectified, dms. ....gal. .68 - —
3d rectified, dms. ....gal. .78 - —
Rue, bots. ....lb. 4.65 - 5.50
Sage, Dalmatian, cns. ....lb. 4.50 - 5.55
Spanish, cns. ....lb. 1.90 - 3.50
Sandalwood, NF, Mysore, cns. ....lb. 13.75 -32.50
Sardine, crude, tanks, Pac. coast, lb. .23 Nom.
refined, alkali, dms., l.c.l. ....lb. .2790- —
kettle-bodied, dms., l.c.l. ....lb. .2960- —
light-pressed, dms., l.c.l. ....lb. .2640- —
tanks ....lb. .25 - —
Sassafras, artificial ....lb. .80 - 1.25
natural, Brazilian (see Oil, ocotea cymbarum).
domestic, USP XII, cns., dms. lb. 1.90 - 2.30
Savin, cns. ....lb. 5.00 -13.50
Savory, cns. ....lb. 8.00 - —
Seal, No. 1, tanks, U. S. ports....lb. No prices
Sesame, tanks. ....lb. No prices
Shingle stain, bbls., c.l., works..gal. .2185- —
l.c.l., works ....gal. .25 - .29
tanks, works ....gal. .15 - .16
Snakeroot, Canada, cns. ....lb. 17.50 -21.00
Soybean, crude, tanks, mills. ....lb. .28 - —
foots, acid, 95%, tanks, dlvd. E. lb. .11½ Nom.
raw, 50%, tanks, dlvd. E. ....lb. 05¼ Nom.
refined, alkali, dms., c.l. ....lb. .3167- —
l.c.l. ....lb. .3230- .3290
tanks ....lb. .3067- —
clarified, dms., c.l. ....lb. .3017- —
l.c.l. ....lb. .3070- .3110
tanks ....lb. .2917- —
winterized, ref., tankcars, works. lb. .30½- .31



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Oil, Spearmint—Peppermint

Oil, spearmint, dms.....lb. 8.25 -10.00
Sperm, bleached, 38°, dms.....lb. .26?0- —
natural, 45°, dms.....lb. .25½- —
Spruce, cns., dms.....lb. 2.25 - 2.75
Sunflower-seed, lmp., refined, tanks, lb. No prices
semi-refined, tanks.....lb. No prices
Sweet birch, Northern, cns.....lb. 4.50 - 8.00
Southern, cns.....lb. 2.50 - 3.25
Tall, crude, tanks, works.....ton.40.00 -45.00
refined, dms., c.l., works.....lb. .06¾- —
l.c.l., works.....lb. .07¼- —
tanks, works.....lb. .05¾- —
Tallow, acidless, dms.....lb. .30 - .30½
Tansy, cns.....lb. 9.75 -14.00
Tar, pine, crude, dms., incl., c.l., works, South..gal. .39 - .41
l.c.l., works, South.....gal. .40½- .43
wine., N.Y.C.....gal. .50¼- .52½
tanks, works, South.....gal. .30 - .32
rectified, USP, l.c.l., dms., incl., works, South..gal. 60 - —
Tar acid (see T)
Thyme, NF, red, cns.....lb. 2.60 - 3.35
white, cns.....lb. 2.85 - 3.80
technical, white, cns.....lb .35 - 1.00
Tung, dms., c.l.....lb. .27½- .28
l.c.l.....lb. .28½- .29
tanks.....lb. .26 - —
Turkey red (see Oil, castor, sulphonated)
Turpentine, rectified, NF cns., dms. lb. .35 - .50
Vetiver, Bourbon, cns.....lb.30.00 -38.00
Haitian.....lb.27.00 -33.00
Whale, ref., natural, dms.....lb. No stocks
Winter-bleached, dms.....lb. No stocks
Wheat germ, dms.....gal.10.00 -13.50

Oil, white mineral, tech., 50 vis., nonret. dms., c.l., San Francisco..gal. .51½- —
l.c.l., S.F.....gal. .53½- .56½
50-65 vis., dms., c.l., N. Y....gal. .42 - —
l.c.l., N.Y.....gal. .45 - .49
65-75 vis., dms., c.l., N. Y....gal. .45 - —
l.c.l., N.Y.....gal. .48 - .52
70 vis., non-ret. dms., c.l., S.F. gal. .51½- —
l.c.l., S.F.....gal. .53½- .56½
USP, 80-90 vis., dms., c.l., N.Y. gal. .49 - —
l.c.l., N.Y.....gal. .52 - .56
85 vis., non-ret. dms., c.l., S.F. gal. .51½- —
l.c.l., S.F.....gal. .53½- .56½
100 vis., non-ret. dms., c.l., S.F. gal. .59 - —
l.c.l., S.F.....gal. .61 - .64
125-135 vis., dms., c.l., N.Y..gal. .61 - —
l.c.l., N.Y.....gal. .64 - .68
145 vis., non-ret. dms., c.l., S.F. gal. .68 - —
l.c.l., S.F.....gal. .70 - .76
145-155 vis., dms., c.l., N.Y..gal. .63 - —
l.c.l., S.F.....gal. .66 - .70
175-185 vis., dms., c.l., N. Y..gal. .66 - —
l.c.l., N.Y.....gal. .69 - .73
180 vis., non-ret. dms., c.l., S.F. gal. .70 - —
l.c.l., S.F.....gal. .72 - .75
200-210 vis., dms., c.l., N.Y..gal. .70 - —
l.c.l., N.Y.....gal. .73 - .76
335-345 vis., dms., c.l., N.Y..gal. .78 - —
l.c.l., N.Y.....gal. .81 - .85
340 vis., non-ret. dms., c.l., S.F. gal. .83 - —
l.c.l., S.F.....gal. .85 - .88

Oil, wintergreen, natural, Northern, cns..lb. 6.35 -17.26
Southern, cns.....lb. 3.65 - 6.50
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, NF, cns.....lb. 4.00 - 5.50
Wormwood, cns.....lb. 8.75 -13.50
Ylang-Ylang, Bourbon, extra, bots.lb.14.00 -25.00
first, bots.....lb.12.50 -14.50
second, bots.....lb. 8.00 - 9.50
third, bots.....lb. 5.25 - 7.50
Oleostearin, trcs.....lb. .26 Nom.
Olivine, aggregate, c.l., mines....ton. 7.00 - 9.50
crushed, 8 mesh, bulk, c.l., works. ton.10.00 - —
paper, bgs., c.l., works.....ton.12.00 - —
lumps, bulk, c.l., works.....ton. 7.00 - —
Opium, USP, cns.....lb.21.30 -21.55
gran., USP, cns.....lb.22.70 -22.95
powd., USP, cns.....lb.22.70 -22.95
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies..lb. 1.00 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul, contracts....lb. .26 - —
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1¼c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex.; 1½c. El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Dinitroanilin toner.....lb. 1.15 - —
Molybdate, bbls.....lb. .59 - —
Orthonitroanilin toner, bbls., kgs., works..lb. .90 - .95
Persian, bbls.....lb. .30 - .45

Orange flowers, bls.....lb. .46 - .48
Orange mineral, American, bbls., 5 tons, ship't point, frt. alld....lb. .20½- —
smaller lots, bbls., same basis. lb. .21 - —
Orange peel, bitter, Haitian, bls..lb. .13 - .14
Sweet, bls.....lb. .14 - .16
Oregano, Mexican, bgs.....lb. .15½- .16
Portuguese, bgs., afloat.....lb. .16 - .16½
Spanish, bgs.....lb. .20 - .21
Orris root, Florentine, bls.....lb. .34 - .35
powdered, bbls., bxs.....lb. .36 - .37
Verona, bls.....lb. .22 - .23
powdered, bbls., bxs.....lb. .24 - .25
Orthoaminobiphenyl dms., c.l., works. lb. .24 - —
l.c.l., same basis.....lb. .23½- —
tanks, same basis.....lb. .22 - —
Orthoamylphenol, dms., l.c.l., works. lb. .37 - —
Orthoanisidin, bbls.....lb. .80 - —
Orthochloroanilin, dms., 10,000 lbs. or more..lb. .60 - —
smaller lots.....lb. .62 - .67
Orthochloroparanitroanilin, dms., works. lb. .57½- —
Orthochlorophenol, dms.....lb. .37 - —
Orthocresol, pure, 30°, dms., c.l., works..lb. .33 - .33½
l.c.l., works.....lb. .33½- .34
tech., 29°-30°, dms., c.l., works...lb. .32 - —
l.c.l., works.....lb. .32½- —
26°-27°, dms., c.l., works.....lb. .26¾- —
l.c.l., same basis.....lb. .26¾- —
tanks, same basis.....lb. .25½- —
Orthodichlorobenzene, dms., c.l., wks., frt. alld. E. of Rockies..lb. .07½- .08
l.c.l., same basis.....lb. .09½- .10¼
tanks, same basis.....lb. .07 - —
Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.
Orthoisopropyl N-phenylcarbamate (see IPC).
Orthonitroanilin, dms.....lb. .50 - .53
Orthonitrochlorobenzene, dms.....lb. .15 - .18
Orthonitrobiphenyl, tech., dms., c.l., works..lb. .12 - —
l.c.l., works.....lb. .13 - —
Orthonitroparachlorophenol, cns.....lb. .75 - —
Orthonitrophenol, dms.....lb. .66 - —
Orthonitrotoluene, dms.....lb. .08 - .09
Orthophenetidin, dms.....lb. .90 - —
Orthotolidin, distilled, kgs.....lb. 1.00 - —
Orthotoluidin, dms.....lb. .18 - .21
Osage orange crystals, bbls., l.c.l..lb. .33½- —
Extract, liquid, bbls., l.c.l.....lb. .15½- —
Ouabaine, USP, bots.....gram. 3.00 - 4.00
Oxyquinolin sulphate, cns., 100 lbs., works..lb. 6.40 - —
smaller lots, works.....lb. 6.55 - 7.40

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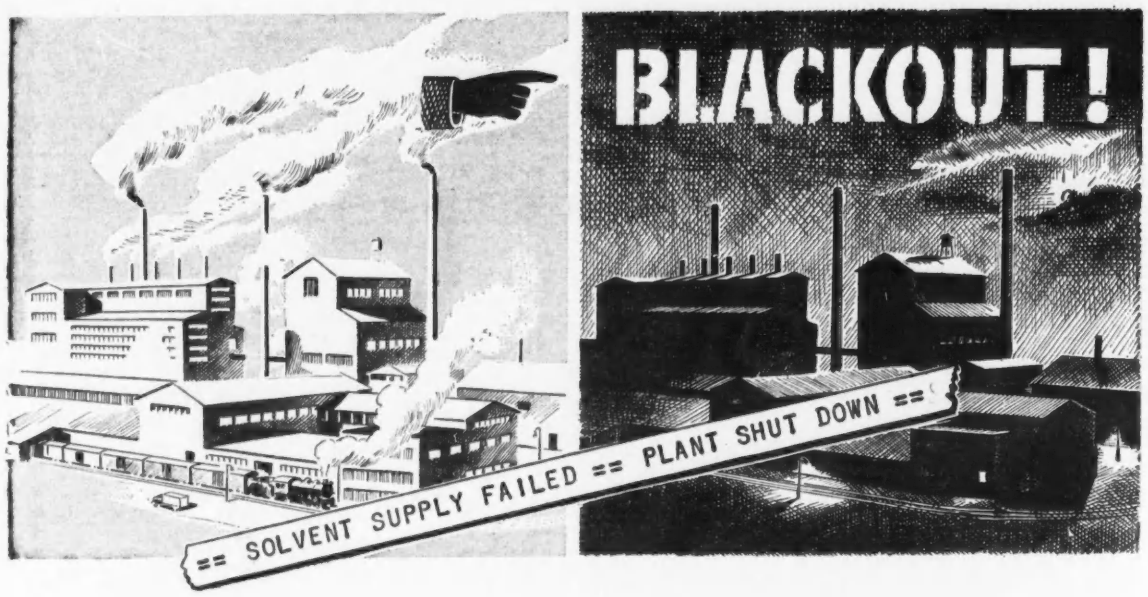
Papain, powd., cs.....lb. 5.50 - 6.50
Papaverine, natural or synthetic, hydrochloride, N.F., cns., 1,000-oz. lots. oz. 6.60 - —
smaller lots.....oz. 6.30 - 6.50
Sulphate, cns.....oz. 7.10 - 7.35
Paprika, Chilean, bgs.....lb. .32 - .33
Portuguese, bgs.....lb. .39 - .40
Spanish, bgs.....lb. .42 - .44
Para-anisidin, dms., works.....lb. .75 - —
Parachlorophenol, dms., c.l., works..lb. .25 - —
l.c.l., works.....lb. .27½- .29
Parachloroanilin, dms., frt. alld. E. Miss..lb. .70 - —
Paracresol, 98%, dms., works.....lb. .41 - .65
Paracymene, dms., c.l., works.....lb. .1595- —
l.c.l., works.....lb. .1645- —
tanks, works.....lb. .1545- —
Paradibromobenzene, bgs., 500-lb. lots, works..lb. .45 - —
Paradichlorobenzene, dms., c.l., works. lb. .12½- —
l.c.l., same basis.....lb. .14 - —
Paraffin, crude, scale, white or yellow, 124-126 ASTM, bbls., c.l., refinery..lb. .065 - .09
fully ref'd, slabs, 117-119 ASTM, loose, c.l., refy..lb. .05 - —
123-125 ASTM, loose, c.l., refy..lb. .0685- —
125-127 ASTM, loose, c.l., refy..lb. .0715- —
128-130 ASTM, loose, c.l., refy..lb. .0740- —
130-132 ASTM, loose, c.l., refy..lb. .0770- —
133-135 ASTM, loose, c.l., refy..lb. .0795- —
135-137 ASTM, loose, c.l., refy..lb. .0860- —
Prices in bags ¾c. lb. higher; l.c.l. lots 1¼c. lb. higher.
Paraformaldehyde, dms., 1,000 lbs., works..lb. .23 - —
smaller lots, works.....lb. .24 - —
Paraldehyde, tech., 98%, 55 gals., dms., l.c.l., works..lb. .12½- .13¼
5-10-gal. dms., l.c.l., works...lb. .14½- —
tanks, works.....lb. .11 - —
USP, cbys.....lb. .37 - .40
Paranitroanilin, kgs., works.....lb. .43 - —
Paranitrochlorobenzene, kgs., works.lb. .15 - —
Paranitrophenol, kgs., works, frt. equald..lb. .35 - —
Paranitrotoluene, kgs., works.....lb. .30 - —
Paraphenylphenol, bgs., works.....lb. .25 - .26
Paraphenylenediamine, tech., kgs., works..lb. 1.30 - —
Para-tertiary-butylphenol, bgs., works. lb. .19 - .20
Paratoluenesulphonamide, bbls., works. lb. .70 - —
Paratoluidin, bbls., works.....lb. .46½- .53
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. E. lb. .31 - —
l.c.l., same basis.....lb. .32 - .33
Passion flower herb, bls.....lb. .35 - .40
Patchouli leaves, bls.....lb. .38 - .40
Pectin, citrous, bbls.....lb. 1.25 - —
Penicillin, amorph, calcium, bulk, 1,000,000,000-unit lots..... 100,000 units. .14 - —
sodium, bots. (100,000 units)...bot. .25 - —
cryst., sodium, bots. (100,000 units). bot. .32 - —
(200,000 units).....bot. .53 - —
bulk, 1,000,000,000-unit lots..... 100,000 units. .16 - —
Pennyroyal leaves, bls.....lb. .25 - .30
Pentachlorophenol, dms., works....lb. .20 - .25
Pentaerythritol, tech., bbls., c.l., works..lb. .32 - —
l.c.l., works.....lb. .34 - .36
Pentane, 28°-38° C., industrial, dms., c.l., group 3..gal. .14 - .17
l.c.l., dms., group 3.....gal. .16 - .20
tanks, group 3.....gal. .08 - .11¼
Pepper, black bgs.....lb. .43 - .44
futures, bgs., nearby.....lb. .42 - .43
distant.....lb. .41½- .42
Red, capsicum, Louisiana longs, bgs., shipment point..lb. .18 Nom.
Mississippi sports, bgs., source, lb. .24 - .25
Mombasa, bgs.....lb. .40 - .41
Niger, bgs.....lb. .18 - .18¼
birdseye, bgs.....lb. .34 - .35
Sierra Leone, futures.....lb. .23 - .23½
Chillies, Haitian, bgs.....lb. No stocks
Mexican, long.....lb. No stocks
White, bgs.....lb. .56 - .57
Peppermint, USP, dom., bls.....lb. .75 - .80
imported, bls.....lb. .80 - .85



A LESSON ON THE VALUE OF SKELLY'S

Dependability of Supply!

"DOC" MacGEE SAYS: Maybe the possibility of a delivery failure in your solvent supply . . . due to some unforeseen shortage . . . seems remote to you. Perhaps such a solvent shortage has never caused a temporary shutdown in any department of your plant. But the mere fact that the possibility does exist, and that shutdowns of this nature do occur, makes *extra precaution* only sensible. That is why so many solvent users have come to place a high value upon Skellysolve's *dependability of supply*.

Other things are important, too, of course. Purity, uniformity, close boiling ranges, freedom from foreign tastes and odors . . . all these we guard with unceasing vigilance.

Skellysolve's *dependability of supply*, however, is something else. We are proud of our record in supplying various types of special fractions, unfailingly, without regard to weather, season, or rush of previous orders. We have our own facilities for producing, purifying, fractionating, handling, storing, and transporting extra quality naphthas that are unsurpassed in the field. Solvents are our *business*. We have pioneered many of the developments in the field of special naphthas. And we are in the business to stay!

So, if some failure of your solvent supply would be a serious matter in your plant, we suggest that you give Skellysolve a trial. We're sure that, whether you judge your solvent on quality of product, promptness of service, or dependability of supply, you'll be *satisfied* with Skellysolve!

SKELLYSOLVE
In the Ink, Paint, and Drug Field

Skellysolve meets every special naphtha quality needed in this field . . . purity, uniformity, close boiling ranges, low evaporation, etc. That is why you can rely on every Skellysolve. There is one with special qualities for production of paint, varnish, oilcloth, ink, linoleum, and other related products . . . as well as for laboratory use. For instance, there is a full line of V. M. & P. naphthas, mineral spirits, and lacquer diluents, plus other special hydrocarbons. And, for help on your particular problems, remember to use the services of Skellysolve Technical Fieldmen.

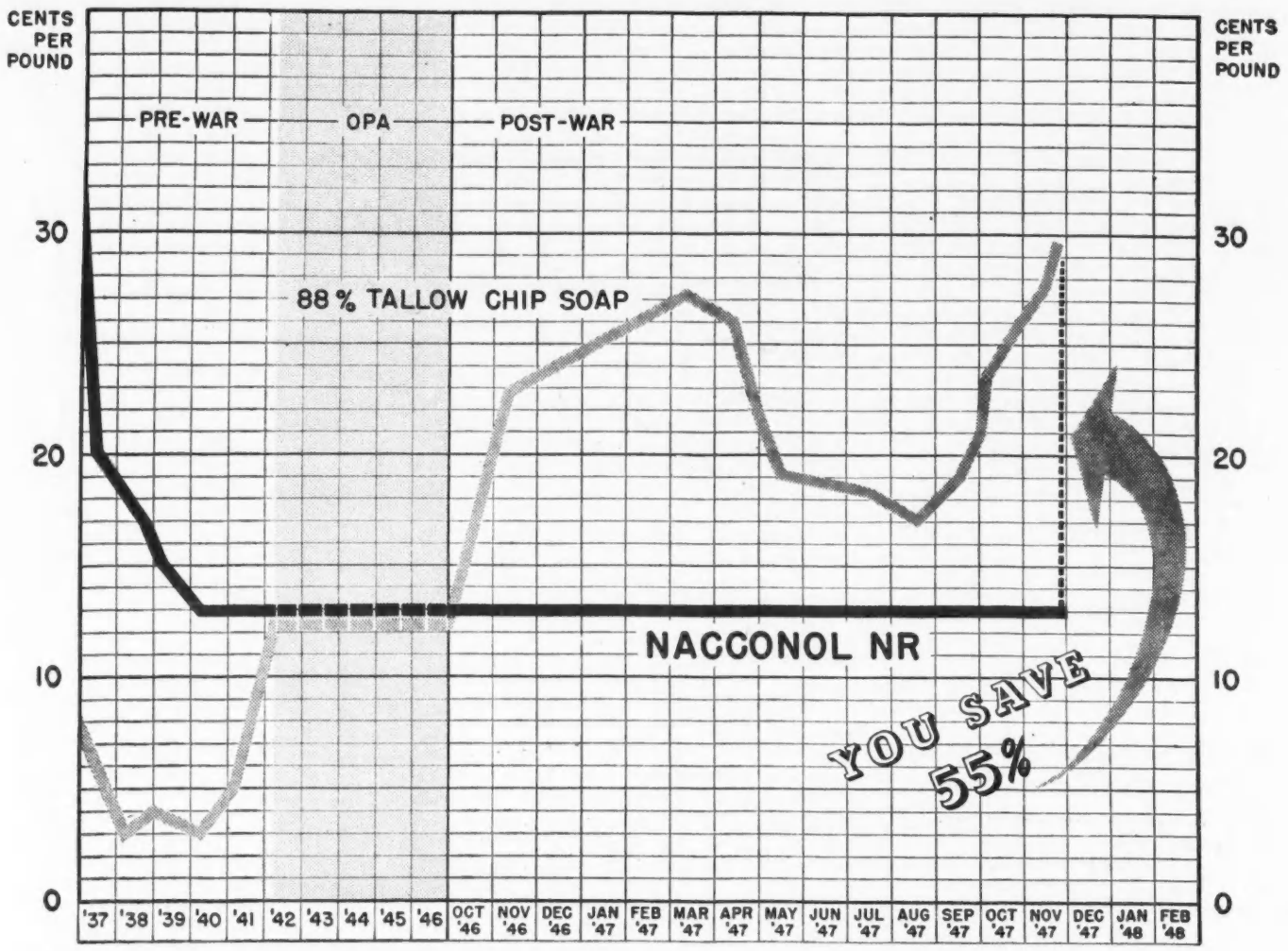
SKELLY

Skellysolve

SOLVENTS DIVISION, SKELLY OIL COMPANY, KANSAS CITY, MO.

Pictures Speak Louder Than Words

COST COMPARISON - NACCONOL NR vs SOAP


CENTS PER POUND
CENTS PER POUND
PRE-WAR
OPA
POST-WAR
30
20
10
0
88% TALLOW CHIP SOAP
NACCONOL NR
YOU SAVE 55%
'37 '38 '39 '40 '41 '42 '43 '44 '45 '46 OCT '46 NOV '46 DEC '46 JAN '47 FEB '47 MAR '47 APR '47 MAY '47 JUN '47 JUL '47 AUG '47 SEP '47 OCT '47 NOV '47 DEC '47 JAN '48 FEB '48

Adopt **NACCONOL® NR**
and cut your soap costs

® Reg. U.S. Pat. Off.

National Aniline DIVISION • ALLIED CHEMICAL & DYE CORPORATION

40 RECTOR ST., NEW YORK 6, N.Y. • BOSTON • PROVIDENCE • PHILADELPHIA • CHICAGO • SAN FRANCISCO • PORTLAND, ORE. GREENSBORO • CHARLOTTE • ATLANTA • NEW ORLEANS • CHATTANOOGA • TORONTO

Perchloroethylene—Phosphate Rock

Perchloroethylene, dms., c.l., zone 1, works, frt. alld..lb. .10¾- —
zone 2, same basis..lb. .11¼- —
zone 3, same basis..lb. .11¾- —
zone 4, same basis..lb. .11¼- —
l.c.l., zone 1, same basis..lb. .11½- —
zone 2, same basis..lb. .12 - —
zone 3, same basis..lb. .12½- —
zone 4, same basis..lb. .12 - —
tanks, zone 1, same basis..lb. .10¼- —
zone 2, same basis..lb. .10¾- —
zone 3, same basis..lb. .11¼- —
zone 4, same basis..lb. .10¾- —

Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E) N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

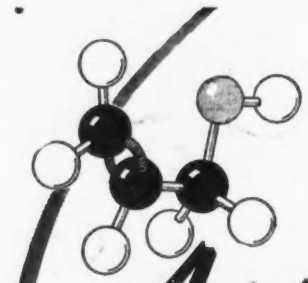
Peru balsam, dms..lb. .90 - .95
Petrolatum, tech., dark, bbls., c.t., group 3..lb. .021 - —
Pennsylvania refy..lb. .045 - —
golden topaz, bbls., c.t..lb. .032 - —
l.c.l..lb. .036 - —
red, veterinary, bbls., c.t..lb. .024 - —
l.c.l..lb. .028 - —
USP, amber, non-ret. dms., c.l...lb. .04¼- —
Pennsylvania refy..lb. .04⅞- —
l.c.l..lb. .05¼- —
cream, c.l., dms..lb. .06 - —
l.c.l..lb. .07½- —
extra amber, dms., c.l..lb. .04½- —
l.c.l..lb. .05½- —

Petrolatum, USP, white, lily, dms., c.l. lb. .06¾- —
l.c.l..lb. .07¾- —
snow, dms., c.l..lb. .07¼- —
Pennsylvania refy..lb. .08⅛- —
l.c.l..lb. .08⅝- —
California, refy..lb. .11⅝- —
soft, dms., c.l..lb. 06 - —
Pennsylvania refy..lb. .07⅛- —
l.c.l..lb. 07 - —
California refy..lb. .1075- —
yellow, soft, dms., c.l..lb. .04⅝- —
Pennsylvania refy..lb. .04⅞- —
l.c.l..lb. .05⅜- —
California refy..lb. 09 —
Petroleum, crude, bulk, at wells, California..bbl. 1.94 - 2.88
Illinois..bbl. 2.65 - 2.77
Kentucky..bbl. 2.60 - 2.77
Louisiana-Arkansas..bbl. 2.14 - 2.75
Montana..bbl. 2.50 - 2.65
Oklahoma-Kansas..bbl. 2.23 - 2.65
Pennsylvania, lower field..bbl. 5.00 - —
Upper field..bbl. 3.10 - 5.00
Texas, East..bbl. 2.65 - —
Gulf coast..bbl. 2.38 - 2.88
North, North-Central..bbl. 2.23 - 2.65
Panhandle..bbl. 2.23 - 2.65
West..bbl. 2.10 - 2.52
Wyoming..bbl. 1.90 - 2.65
Ether, laboratory, 30°-60° C. cns., dlvd. E..gal. 1.50 - —
dms., c.l., group 3..gal. .26 - —
l.c.l., same basis..gal. .44 - —
35°-60° C, 10-gal. cns., dlvd. E..gal 1.50 - —
dms., c.l., Group 3..gal. .26 - —
l.c.l., same basis..gal. .44 - —
40°-75° C, 10-gal. cns., dlvd. E..gal. 1.50 - —
dms., c.l., Group 3..gal. .26 - —
l.c.l., same basis..gal. .44 - —

Petroleum, fuel oil, bunker C (No. 6), California, heavy tanks, refinery..bbl. 1.75 - 1.90
light, tanks, refinery..bbl. 1.95 - 2.10
Eastern, tanks, Albany, N. Y..bbl. 3.249 - —
Baltimore, Md..bbl. 3.00 - 3.17
Boston, Mass..bbl. 3.025 - 3.315
Charleston, S. C..bbl. 2.93 - 2.96
Jacksonville, Fla..bbl. 2.50 - 3.03
New York, N. Y..bbl. 3.00 - 3.27
Norfolk, Va..bbl. 2.97 - 3.04
Oklahoma, tanks, refinery..bbl. 2.50 - 2.90
Philadelphia, Pa..bbl. 3.00 - 3.17
Portland, Me..bbl. 3.085 - 3.115
Providence, R. I..bbl. 3.045 - 3.085
Savannah, Ga..bbl. 2.96 - 3.03
diesel, tanks, refinery, California, gal. .065 - .0815
Pennsylvania..gal. .11 - .115
Furnace, tanks, refinery, Arkansas, No. 2..gal. .06125- —
No. 3..gal. .08875- —
Bayonne, N. J., No. 2..gal. .072 - —
Group 3, No. 1..gal. .06125- .12
No. 1, straw..gal. .06375- —
No. 2, straw..gal. .09 - .12
No. 3..gal. .06125- —
range..gal. .06375- .0975
Pennsylvania, No. 1..gal. .11125- .12
No. 2..gal. .11 - .12
No. 3..gal. .11 - .115
Lacquer diluent, California, 100 l.c.r., 200 e.p., tanks, dlvd., Los Angeles..gal. .118 - —
Portland, Ore..gal. .128 - —
San Francisco..gal. .11½- —
Seattle, Wash..gal. .128 - —
East coast, tanks, N. J. and N. Y., refinery..gal. .16 - —
Group 3, benzol-type, tanks, refinery..gal. .12125- .1255
toluol-type, tanks, refinery..gal. .11625- .12

Petroleum, mineral spirits, California, tanks, San Francisco, 170-250 b.r..gal. .123 - —
205-290 b.r..gal. .123 - —
244-362 b.r..gal. .123 - —
307-360 b.r..gal. .113 - —
312-402 b.r..gal. .113 - —
362-458 b.r..gal. .113 - —
East coast, tanks, N. J., N. Y., refinery..gal. .14 - —
Group 3, tanks..gal. .10375- .10625
Gulf coast, tanks, refinery..gal. .0875- —
tankwagon, Baltimore..gal. .16 - —
Boston..gal. .145 - —
Buffalo..gal. .15 - —
Camden, N. J..gal. .135 - —
Chicago..gal. .169 - —
Detroit..gal. .192 - —
Kansas City, Mo..gal. .165 - —
Lancaster, Pa..gal. .145 - —
Newark..gal. .135 - —
New York..gal. .135 - —
Philadelphia..gal. .135 - —
Pittsburgh..gal. .15 - —
Providence..gal. .15 - —
Rochester..gal. .16 - —
St. Louis..gal. .171 - —
Syracuse..gal. .17 - —
Washington, D. C..gal. .16 - —
Naphtha, cleaners, California, tanks, San Francisco..gal. .123 - —
East coast, tanks, N. J., N. Y., refinery..gal. .14 - —
Group 3, tanks..gal. .11375- .11625
tankwagons, St. Louis..gal. .1450- —
tankwagon, Newark..gal. .12½- —
Chicago..gal. .14½- —
Detroit..gal. .15½- —
New York..gal. .12 - .13
Philadelphia..gal. .125 - —
High-flash, 140° F, group 3, refinery, tanks..gal. .14½- —
High-solvency, tanks, refinery, dlvd., N. J., 200-285 b.r., 37-38° C., mixed anilin pt..gal. .22 - —
20° C. m.a.p..gal. .26½- —
270-370 b.r., 78-81 m.a.p..gal. .24½- .26
40° C., m.a.p..gal. .28 - —
305-400 b.r., 26-30° C., m.a.p. gal. .25½- .26½
340-440 b.r., 32° C., m.a.p. gal. .26½- —
V.M.&P., at refinery, California, 46.5, 254-390 b.r., tanks, El Segundo..gal. .12 - —
Richmond..gal. 12½- —
Portland, Ore., Seattle, Wash..gal. .12 - —
64-77, 190-310 b.r., tanks, Los Angeles..gal. .11 - —
San Francisco..gal. .11½- —
Portland, Seattle..gal. .12 - —
East coast, N. J., N. Y., tanks, gal. .15 - —
Group 3, tanks..gal. .11375- .11625
Gulf coast, tanks, New Orleans..gal. .10 - —
tankwagon, Boston..gal. .155 - .16
Chicago..gal. .172 - —
Detroit..gal. .184 - —
Milwaukee..gal. .188 - —
Minneapolis..gal. .177 - —
Newark..gal. .16 - —
New York..gal. .145 - —
Philadelphia..gal. .15 - —
Pittsburgh..gal. .16 - —
St. Louis..gal. .181 - —
Solvent, rubber, at refinery, California, tanks, San Francisco..gal. .115 - —
East coast, N. J., N. Y., gal. .15 - —
Group 3, tanks..gal. .10875- .11375
Stoddard (C.S. 8-38), at refinery, California tanks, San Francisco..gal. .12 - —
East coast, N. J., N. Y., tanks..gal. .14 - —
Group 3, tanks..gal. .10875- .11125
Pennsylvania, western, tanks, gal. .10 - —
tankwagon, Boston..gal. .14½- —
Chicago..gal. .15½- —
Detroit..gal. .17½- —
Milwaukee..gal. .16½- —
Minneapolis..gal. .164 - —
Newark..gal. .13½- —
New York..gal. .13½- —
Philadelphia..gal. .13½- —
Pittsburgh..gal. .15 - —
St. Louis..gal. .17 - —
Syracuse..gal. .17 - —
Sulphonate, 70% sulphonic content, ref. dms., c.l., works..lb. .134 - —
l.c.l., works..lb. .144 - —
content, ref. dms., tanks, works..lb. .124 - —
50% sulphonic content, ref. dms., c.l., works..lb. .1065- .1075
l.c.l., works..lb. .1100- .1105
tanks, works..lb. .0985- .0975
Phenobarbital, dms., 100 lbs..lb. 3.50 - 4.50
Phenol, 90-92% (cresol, 8-10%), dms., c.l., works, frt. equald..lb. .13 - .13½
l.c.l., same basis..lb. .13⅝- .14⅛
tanks, same basis..lb. .12 - .12½
82-84% (cresol, 16-18%), dms., c.l., same basis..lb. .13⅝- —
l.c.l., same basis..lb. .14⅛- —
tanks, same basis..lb. .12⅝- —
USP, dms., c.l., same basis..lb. .12½- .13⅛
l.c.l., same basis..lb. .13¼- .13⅝
tanks, same basis..lb. .11½- —
Phenolphthalein, USP, bbls., dms., 2,000 lbs..lb. .86 - —
smaller lots..lb. .87 - .92
yellow, fib. dms., 2,000 lbs..lb. .85 - —
smaller lots..lb. .87 - .92
Phenothiazin, NF, fib. dms., ton lots, works..lb. .49 - —
smaller lots, works..lb. .53 - .58
Phenylacetaldehyde solution, 50%, bots. lb. 2.35 - 2.75
pure, bots..lb. 4.00 - 4.50
Phenyl acetate, dms., 100-lb. lots, works..lb. .50 - —
Phenyldiethanolamine, dms., works..lb. .33 - .34
Phenylethyl acetate, dms..lb. 2.15 - 2.70
Phenylethylphenyl acetate, bots...lb. 4.50 - 6.00
Phenylhydrazin base, CP, bots....lb. 4.55 - —
Hydrochloride, CP, bots., works..lb. 7.10 - —
commercial, kgs., works..lb. 1.75 - —
Phloroglucinol, CP, fib. dms.....lb. 13.75 - —
tech., fib. dms..lb. 10.00 - —
Phosgene, 150-lb. cyls., works.....lb. .20½- .55
10-lb. cyls., works..lb. 1.00 - —
Phosphate, defluorinated (see under D.).
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 68-66%, b.p.l., bulk, c.l., car at mine..long ton. 3.34 - 3.49
70%-68%, b.p.l., c.l., same basis..long ton. 3.74 - 3.89
72%-70%, b.p.l., c.l., same basis..long ton. 4.34 - 4.42
76%-74%, b.p.l., same basis, long ton. 5.34 - 5.49
77%-76%, b.p.l., c.l., same basis..long ton. 6.34 - 6.49

Prices for Florida phosphate rock are plus usual bonus penalty clause on oil and labor. Prices on entirely pebble, 50c. per long ton higher than above quotations.



FROM SHELL CHEMICAL

ALLYL ALCOHOL ($CH_2=CH-CH_2OH$)

AVAILABLE IN TANK CARS AND DRUMS

A highly versatile intermediate. Its olefinic double bond and hydroxyl group may be reacted separately or simultaneously to form a host of useful compounds

THE REACTIVITY of Allyl Alcohol, either as an alcohol or an olefin, is considerably greater in most cases than that of saturated primary alcohols or simple olefins. Therefore a larger number of derivatives are more readily obtainable.

DIRECT DERIVATIVES of Allyl Alcohol include oxidation and reduction products, chlorohydrins, ethers, polymers, and esters of a variety of organic and inorganic acids.

RESINOUS POLYMERS are among its most important derivatives. Esters of dibasic acids or of acids containing conjugated double bonds readily polymerize in the presence of suitable catalysts. These polymers vary from viscous liquids to clear, hard thermosetting plastics.

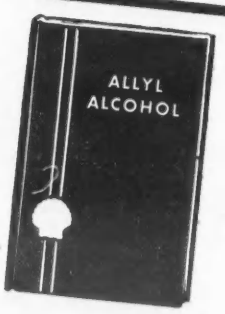
A request on your business letterhead will bring a copy of Technical Book SC: 46-32.

PHYSICAL PROPERTIES

Specific Gravity 20°/20°C	.8535
Boiling Point (760 mm)	96.9°C
Flash Point (open cup)	90°F
(closed cup)	72°F
Refractive Index, N_D^{20}	1.4133
Aqueous Solutions	Completely miscible with H_2O. Constant boiling mixture at 88.9°C, containing 72.3% by weight allyl alcohol

SPECIFICATIONS

Purity	Minimum 98% by wt.
Specific Gravity (20°/20°C)	.852 to .855
Color (platinum-cobalt scale)	Maximum 15
Water	Maximum .3%
Distillation Range	Below 95°C: None; Above 98°C: None

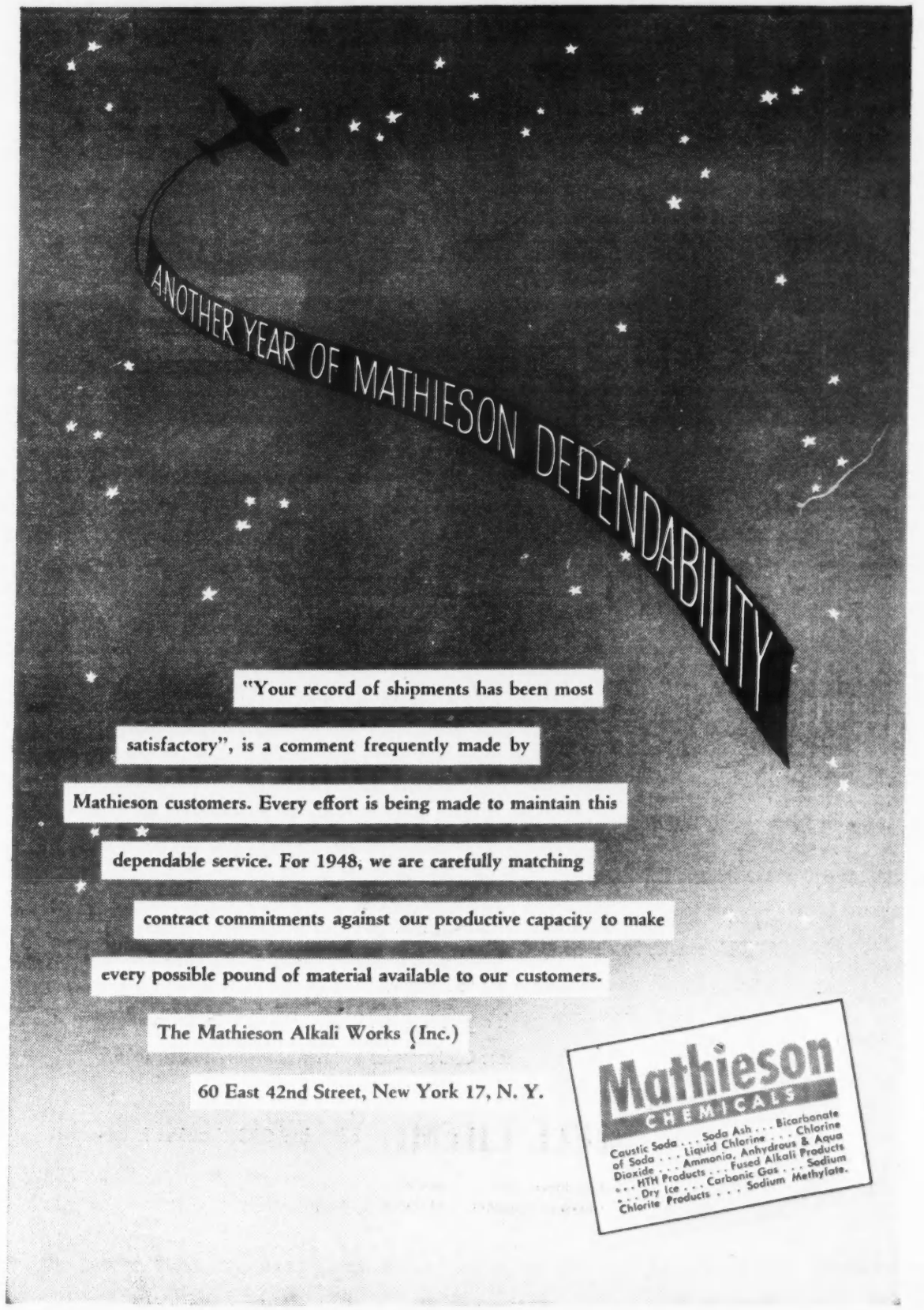


Among the many other Shell Chemical products are Allyl Chloride, Epichlorohydrin, Glycerol Dichlorohydrin, Acetone and Diacetone Alcohol

SHELL CHEMICAL CORPORATION

100 Bush Street, San Francisco 6 • 500 Fifth Avenue, New York 18
Los Angeles • Houston • St. Louis • Chicago • Cleveland • Boston • Detroit

Phosphate rock, Florida, finely ground
65.5% b.p.l., basis 30% P_2O_5 minimum..short ton 5.00 - —
68% b.p.l., basis 31% P_2O_5 minimum..short ton 5.20 - —
70% b.p.l., basis 32% P_2O_5 minimum..short ton 5.55 - —
Tennessee, brown, run-of-mine, unground, 70-68% b.p.l., 5½% I. & a., same basis..long ton 5.50 - —
72%-70% b.p.l., 5½% I. & a., same basis..long ton 6.00 - —
26% P_2O_5, same basis, long ton 5.15 - —
30% P_2O_5, same basis, long ton 5.35 - —
31% P_2O_5, same basis, short ton 5.45 - —
32% P_2O_5, same basis, short ton 5.70 - —
35% P_2O_5, same basis, short ton 6.20 - —
Phosphorus, red, amorphous, cs.....lb .33 - .36
tins, export .....lb .40 - .45
Yellow, cns .....lb .30 - .37
dms., c.l. .....lb .26 - —
Oxychloride, dms., works.....lb .11 - .14
Pentoxide, dms c.l., works.....lb .12 - —
l.c.l., works .....lb .13 - .14
Sesquisulphide, tins, cs., works...lb .28 - .29
Trichloride, dms., c.l., works.....lb .11 - .14
l.c.l., works .....lb .12 - .15
Phthalamide, bbls., works.....lb .35 - .40
kgs., works .....lb .45 - .50
Phthalic anhydride, bgs., bbls., c.l., works, frt. equald..lb .17½- .20
Pacific Cst., dlvd. .....lb .19½- —
l.c.l., same basis.....lb .18½- .21
Pacific Cst., dlvd.....lb .21½- —
Pichi leaves, bgs.....lb .07 - .08
Picoline (see Alphapicoline and Betapicoline).
Picrotoxin, bots .....oz. 8.00 - —
Pilocarpine hydrochloride, USP, bots., vials..oz. 4.75 - 5.25
Nitrate, bots, vials.....oz 6.25 - 7.25
Pimento, Jamaica, bgs. .....lb .24½- .25
Pinetar, retort, dms, incl., c.l., works, South..gal .39 - .41
l.c.l., same basis.....gal .40½- .43
whse., N.Y.C. .....gal .50¼- .52½
tanks, works, South.....gal .30 - .32
Pinkroot, bls.....lb 2.25 - 2.50
Piperidine, 95%, dms., frt equald..lb 1.50 - —
98%, same basis.....lb 1.60 - —
Piperazine hexahydrate, bots.....lb 11.50 -12.50
Pipsissewa herb (see Prince's pine).
Pitch, coaltar, 150° m.p., bbls., c.l. works..ton 31.00 - —
l.c.l., works .....ton 34.00 - —
Cottonseed, dms., works.....lb .10½- .10¾
Hardwood, paper bgs., works....lb .04 - —
Linseed, dms. .....lb No prices
Petroleum (see Asphaltum, Mexican, Texas)
Pine, dms ex whse, East...100 lbs. 6.90 - —
Soybean, dms., works.....lb .10¼- .10½
Plaster of paris (see Gypsum).
Platinum metal, works.....oz. 86.00 -89.00
Podophyllin, dms .....lb. 13.50 -15.75
Pokeroot, bls .....lb. .21 - .22
Polystyrene, plain colors, bgs., 20,000 lbs., works, frt. alld..lb .31½ - —
20,000 lbs., same basis.....lb .32½ - —
smaller lots, same basis.....lb .32¾- .50
Water-clear, polystyrene, 7c.-18c. per lb. less than plain colors, depending on quantity; plain colors, dms., 5c. higher.
Pomegranate root bark, bgs.....lb .75 - .76
Poppy flowers, bls.....lb .65 - .70
Seed, Argentine, bgs.....lb .21 - .21½
Danish, bgs. .....lb .22 - .22½
Dutch, bgs. .....lb .24 - .24½
Turkish, bgs. .....lb .19½- .20
Potash, caustic, low-chloride, flake, 90% dms., c.l., works 100 lbs. 9.60 - —
l.c.l., works.....100 lbs. 10.35 - —
liquid, dms., c.l., works 100 lbs. 9.00 - —
l.c.l., works .....100 lbs. 9.75 - —
tanks, works .....100 lbs. 8.25 - —
solid, 90%, dms., c.l., works.....100 lbs. 9.00 - —
l.c.l., works.....100 lbs. 9.75 - —
regular, flake, 88-92%, dms., c.l., works..lb .0785- —
l.c.l., works .....lb .0850- —
liquid, 45% basis, dms., c.l., works..lb .03575- —
l.c.l., same basis.....lb .0395- —
tanks, same basis.....lb .03¼- —
solid, 88-92%, dms., c.l., works..lb .07½- —
l.c.l. .....lb .08 - —
Potassium abietate, ...lb .08 - —
Acetate, USP, dms.....lb .28 - .30
Bicarbonate, USP, gran., dms...lb .20 - .22
powd., dms.....lb .22 - .24
Bichromate, bgs., c.l., works...lb .11½- —
l.c.l., works.....lb .11¾- .13¼
Potash bichromate in bbls., ½c. higher.
Borate, gran., bbls., c.l., works..ton 240.00 - —
ton lots, works. .....ton 218.50 - —
less ton lots, works. .....ton 223.50 - —
Bromide, USP, cryst., gran., bbls., kgs..lb .33 - .34
Carbonate, tech., calcined, bbls., c.l., works..lb .07½- —
l.c.l., same basis .....lb .08 - —
hydrated, 83-85%, bbls., c.l., works, lb .06 - —
dms., l.c.l., works.....lb .06½- —
USP, gran., bbls., dms.....lb .14 - .19
powd., bbls., dms .....lb .20 - .25
Chromate, tech., bgs.....lb .25 - .29
Chlorate, cryst., kgs., c.l., works, lb .08½- —
l.c.l., works.....lb .09¼- —
powd., dms., kgs., c.l., works..lb .09 - —
l.c.l., works.....lb .09¾- —
export, kgs., 1 to 10 tons, ex whse..lb .12 - —
Chloride, USP, cryst., bbls.....lb .21 - .22
gran., bbls.....lb .19 - .20
powd., bbls.....lb .22 - .25
Citrate, USP, gran., bbls., dms..lb .35½- .40½
Potash citrate, USP, powd., 3c. per lb. higher.
Cyanide, dms., works.....lb .55 - —
Fluoride, dms., works.....lb .24 - —
Glycerophosphate, 75% solution, cbys lb. 2.05 - 2.20
Guaiacolsulphonate, NF, dms....lb 1.80 - 1.85
Hydroxide, tech. (see Potash, caustic).
USP, sticks, dms.....lb .24 - .26
Hypophosphite, cns.....lb .72 - .75
Iodide, dms.....lb 1.85 - 1.98
Manure salt, 22% K_2O, bulk, mines, unit-ton .20 - —
25% K_2O, bulk, mines..unit-ton .21 - —
Metabisulphite, gran., bbls.....lb .19 - .21
powd., bbls.....lb .25 - —
Muriate, dom., 60% K_2O, bulk, Carlsbad, N. M..unit ton .37½- —
Trona, Cal.....unit ton .45½- —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., dms..lb .28 - .34
Perchlorate, kgs., works.....lb .12½- .14
Permanganate, tech., dms., works..lb .24¾- .29¼
USP, dms., works.....lb .23½- .24
Persulphate, dms., c.l., works...lb .17 - —
l.c.l., works.....lb .21 - —
Potassium phosphate, tetrabasic, bbls., works..lb .13 - .13½
Prussiate, red, kgs.....lb .55 - .58
Yellow, bbls.....lb .19 - —
Ricinoleate, tech., bbls.....lb .18 - —
Silicate, glass, bgs., c.l., works..ton 200.00 - —
l.c.l. .....100 lbs. 15.25 - —
solution, 20° Be. ret. drums, c.l., works..100 lbs. 4.25 - —
l.c.l., 5 or more, works..100 lbs. 5.00 - —
1-4, works.....100 lbs. 5.50 - —
32° Be. ret. dms., c.l., works, 100 lbs. 4.75 - —
l.c.l., 5 or more, works, 100 lbs. 5.50 - —
1-4, works.....100 lbs. 6.00 - —
40.7° Be. ret. dms., c.l., works, 100 lbs. 5.75 - —
l.c.l., 5 or more, works, 100 lbs. 6.50 - —
1-4, works .....100 lbs. 7.00 - —
Silicofluoride, bbls., works.....lb .09 - —
Sulphate, NF, cryst., bbls.....lb .30½- .33½
powd., bbls. .....lb .14½- .17
tech., dom., bulk, basis 90-95% K_2O, min, 90% ex vessel
Atlantic or Gulf ports..ton 36.25 - —
West coast ports.....ton 39.25 - —
Sulphocyanide, cryst., NF.., dms..lb .62 - .70
Thiocyanate (see sulphocyanide).
Titanate, ctns., c.l., works.....lb .12 - —
5 tons, works.....lb .12½- —
2,000 lbs or less, works.....lb .12½- .13
Xanthate, dms., c.l.....lb .12 - —
Potassium-magnesium sulphate, bulk, min., 40% K_2SO_4, 18-50% MgO, ex vessel, ports..ton 26.00 - —
Potassium-sodium ferricyanide, kgs., works..lb .45 - .48
Potassium-sodium tartrate (see Rochelle salt).
Potassium - titanium oxalate, bbls., dms..lb .50 - .55
Prickly ash bark, bls.....lb .33 - .34
Berries, bgs.....lb .20 Nom.
Prince's pine herb, bls.....lb .55 - .60
Procaine hydrochloride, cns., 200-lb. lots..lb 4.50 - —
smaller lots .....lb 4.75 - 5.50
Propane, commercial grade, tanks, group 3..gal .05½- .06¾
Propionaldehyde, dms., c.l., works..lb .16½- —
l.c.l., works .....lb .17 - —
tanks, works .....lb .15 - —
Propyl aldehyde (see Propionaldehyde).
Propyl acetate, dms., c.l., works....lb .32½- —
l.c.l., works .....lb .33½- —
tanks, works .....lb .21 - —
tankwagons, works .....lb .21½- —
Propylene dichloride, dms., c.l.....lb .06½- —
l.c.l. .....lb .09½- —
smaller containers.....lb .12½- —
tanks .....lb .07 - —
Oxide, dms., c.l., frt. equald.....lb .19 - —
l.c.l., frt. equald.....lb .20 - .21
tanks, frt. equald.....lb .17½- —
Propyleneglycol, dms., c.l., frt. alld. E..lb .16 - —
l.c.l. same basis.....lb .16½- .18
tanks, same basis.....lb .14½- —
Propylthiouracil, bots. works....kilo 50.00 - —
Psyllium seed (see Fleaseed)
Pulsatilla herb, bls. .....lb .60 - .65
Pumice, dom., grd., course, 0-½, 1, 1½, 2, 3, bgs., ton lots..lb .03¾- .04
Chicago .....lb .04½- —
smaller lots .....lb .05¾- .04¼
fine, bgs., ton lots.....lb .03¾- —
smaller lots .....lb .03¾- .04
Pumice, Italian, silk-screen, fine, bgs., ton lots..lb .04 - —
coarse, bgs., ton.....lb .05½- —
sun dried, fine, bgs., ton lots...lb .03 - —
coarse, bgs., ton lots.....lb .04½- —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed bgs. .....lb. 27 - 29
Purple lake (see Red).
Pyrethrum concentrate, dewaxed, 20%; for aerosol bombs, dms., works..lb. 9.25 - 9.30
liquid (20 to 1), basis 2 grams pyrethrins per 100cc., odorless base, dms., works..gal. 6.25 - —
regular base, dms., works..gal. 6.20 - —
(50 to 1), base 3 grams pyrethrins, per 100cc. odorless base, bbls., works..gal. 9.30 - —
Flowers, fine-grd., 0.9% pyrethrins, bbls., works..lb. 30 - —
powder, 1.3% pyrethrins, bbls., works..lb. .42 - —
Pyridin, denaturing, ret dms., works, frt. equald..gal. 1.55 - 1.90
refd., 2°, ret. dms., c.l., same basis, lb. .60½- .69
l.c.l., same basis.....lb. .61 - .69¼
Pyridoxin hydrochloride, 100-gram lots, kilo. 550.00- —
Pyrites, Spanish, c.i.f. Atl. ports, long-ton. 8.00 -10.00
Pyrocatechein (see Catechol).
Pyronate, dms., c.l., dlvd. E. of Miss. gal. 70 - —
l.c.l., works .....gal. 70 - —
tanks, dlvd., E. of Miss.....gal. .60 - —
Pyronate prices W. of Miss., 3c. per gal. higher.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"Your record of shipments has been most
satisfactory", is a comment frequently made by
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dependable service. For 1948, we are carefully matching
contract commitments against our productive capacity to make
every possible pound of material available to our customers.
The Mathieson Alkali Works (Inc.)
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CHEMICALS
Caustic Soda . . . Soda Ash . . . Bicarbonate of Soda . . . Liquid Chlorine . . . Chlorine Dioxide . . . Ammonia, Anhydrous & Aqua . . . HTH Products . . . Fused Alkali Products . . . Dry Ice . . . Carbonic Gas . . . Sodium Chlorite Products . . . Sodium Methylate.

Pyrophyllite—Senega Root

Pyrophyllite, standard, 200 mesh, bulk, c.l., mines..ton.11.00 - 11.50
325 mesh, bulk, c.l., mines....ton 14.00 - —
No. 3, 200 mesh, bulk, c.l., mines, ton. 9.50 - —
Insecticide grade, 200 mesh, bulk, c.l., mines..ton. 9.00 -10.00
Rubber grade, 140 mesh, bulk, c.l., mines..ton. 7.00 - —
230 mesh, bulk, c.l., mines..ton 12.00 - —
Pyrophyllite in paper bgs., $1.50-$2.50 per ton extra.

Pyroxylin scrap, opaque, amber, cs., works..lb. .17 - —
black, cs., works.....lb. .14 - —
gray, cs., works.....lb. .14 - —
mixed, mottled, cs., works..lb. .12 - —
white, china, ivory, cs., works, lb .17 - —
dense, cs., works.....lb. .17 - —
translucent, pastels, cs., works,lb. .17 - —
transparent, colorless, cs., works, lb. .19 - —
colors, cs., works.....lb. .17 - —
shavings, opaque, amber, cs., works, lb. .15 - —
mixed colors, cs., works.....lb. .14 - —
white, cs., works.....lb. .17 - —

Q

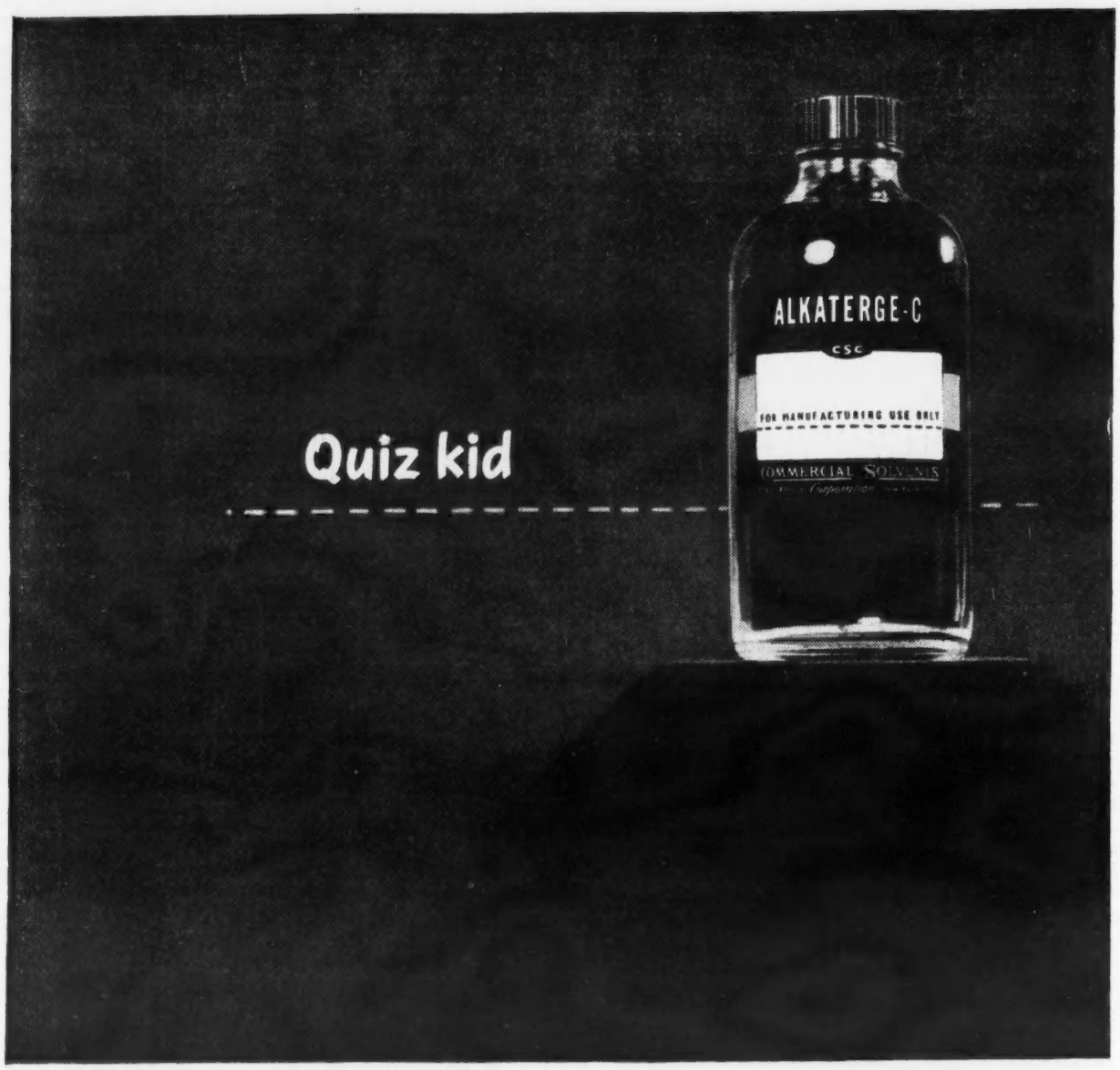
Quassia chips, bls.....lb .07 - 09
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l..lb. .13½- —
liq., 35% tannin, bbls., works..lb. .0635- —
tanks, same basis.....lb. .06 - —
Quebracho extract, solid, 64% tannin, bgs., c.l..lb. .09½- —
powd., 70% tannin, bgs., c.l....lb. .14½- —
ordinary, solid, 63% tannin, bgs., c.l., ex dock, duty extra..lb. .0821- .0850
Quebracho extract prices are based on $20 freight and $1 insurance per long ton.
Queen of the meadow root bgs....lb. .12 - .13
Quercitron crystals, bbls., l.c.l.....lb .32½- —
Extract, liquid, bbls., l.c.l.....lb. .14½- —
solid, bxs.....lb. .28 - —
Quicksilver, flasks (76 lbs. net)..flask.79.00 -80.00
Quince seed, bgs.....lb. 1.20 - 1.80
Quinidine, NF, V, cryst., cns.....oz. No stocks
powd., precip., cns.....oz No stocks
Sulphate, USP, cns .....oz .95 - 1.15
Quinine, NF, cns., 100 ozs.....oz. .97½- —
Acetate, cns., 100 ozs.....oz. No stocks
Arsenate, cns., 100 ozs.....oz. No stocks
Arsenite, cns., 100 ozs.....oz. No stocks
Bisulphate, USP, cns., 100 ozs....oz. 73½- —
Citrate, cns., 100 ozs.....oz. No stocks
Dihydrobromide, bots., 50 ozs....oz. No stocks
Dihydrochloride, USP .....oz .99½- —
Ethylcarbonate, NF, cns., 100 ozs.oz No stocks
Ferrocyanide, cns., 100 ozs.....oz. No stocks
Formate, cns., 100 ozs.....oz. No stocks
Hydrobromide, NF, cns., 50-oz. cans, oz. .80½- —
Hydrochloride, USP, cns., 100 ozs.oz. .85½- —
Hydroiodide, cns., 100 ozs.....oz No stocks
Hypophosphite, cns., 100 ozs.....oz No stocks
Hydrophosphite, cns., 100 ozs....oz. No stocks
Phosphate, NF, cns., 100 ozs.....oz. 1.10 - —
Salicylate, NF, cns., 100 ozs.....oz. .35 - —
Sulphate, USP, cns., 100 ozs.....oz .80½- —
Sulphocarbolate, cns., 100 ozs....oz. No stocks
Quinine tannate, USP X, cns., 100 ozs. oz. No stocks
Tartrate, cns., 100 ozs.....oz. No stocks
Valerate, NF, IV, 100 ozs.....oz. 1.12½- —
Quinine-urea hydrochloride, NF, cns.oz .94½- —
Quinclin, dms., c.l., works.....lb. .32 - .50

R

R salt, dry, bbls. .....lb. .61 - .72
paste, dms .....lb. .57 - —
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. 1.45 - 2.25
Prices 1½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport., 1½c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1½c.), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher, dlvd. Pacific coast prices equaled with Chicago, dlvd. Denver, Pueblo, Salt Lake City, Wichita
Cadmium lithopone, deep shade, bbls., frt. alld. E. of Rockies..lb 1.25 - —
light shade, bbls., same basis,lb 1.10 - —
Maroon, bbls., same basis.....lb. 1.35 - 1.45
medium shade, bbls., same basis, lb 1.20 - —
medium-light shade, bbls., same basis,.lb. 1.15 - —
orange-red, bbls., same basis, lb. 1.05 - —
Red cadmium lithopone, all shades, in smaller pkgs. 5c. per lb. higher; all prices are 1c. per lb. higher ex whse., Los Angeles and San Francisco.
Carmine, No. 40, dngs., works....lb. 5.50 - 5.65
smaller containers, works.....lb. 6.10 - 6.15
Crocus martis (see Red, maroon, oxide).
Dyes (see Dyes, coaltar).
Red, eosin toner, bbls., works.....lb. 1.35 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y., lb. .10 - .10¼
English, all shades.....lb. .16 - —
Iron oxide, synth., bbls.....lb. .10½- .10¾
Rose lake, alizarin, bbls., works, reduced, 85% copperas oxide, bbls., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., E. St. Louis, and Trenton, N. J. lb. .06¾- —
80% copperas oxide, bbls., same basis..lb. 085 - 094
Lake C toner, alizarin, bbls., works lb. 1.05 - —
Lithol toner, bbls., works.....lb. .75 - .77
Lithol-rubin toner, alizarin lake, bbls., works..lb. 1.40 - —
Maroon, alizarin lake, 25%, bgs., works..lb .40 - .43
toner, bbls., works.....lb 1.25 - 1.50
Cadmium, deep, bbls., works...lb. 1.20 - —
regular, bbls., works.....lb. 1.10 - —
Iron oxide, bgs., c.l.....lb. .0345- —
l.c.l., bgs.....lb. .037 - —
MNPT toner, kgs., works.....lb. 3.25 - —
Maroons in smaller pkgs., 5c. per lb. higher
Mercury oxide, tech., bbls., 10,000 lbs. works..lb 2.00 - —
smaller lots, works.....lb. 2.02 - —
Metallic, bbls., works.....lb. .02½- .02¾
Oxide (see Red, iron oxide).
Oxide, Persian gulf, bgs., works..lb. .06¾- —
Para toner, bbls. .....lb. .85 - .88
chlorinated, kgs. .....lb. .95 - 1.05
concentrated, alizarin lake, kgs., works lb. .80 - —
Phloxin toner (see Red, eosin toner).
Phosphotungsic, rhodamine Y, kgs., works..lb. 4.45 - —
Pink lake, alizarin, bbls., works..lb. .20 - .25
Purple lake, kgs. .....lb. 1.35 - —
lb. .25 - .28
Spanish oxide, grade 1, c.l., bbls..lb. 05¼- .06½
Toluidin toner, alizarin lake, kgs., works..lb. 1.30 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., E. St. L.....lb .21 - .23
Venetian, 15%, bgs., works.....lb. .0310- —
20%, bgs., works.....lb. .0320- —
25%, bgs., works.....lb. .0350- —
30%, bgs., works.....lb. .0380- —
35%, bgs., works.....lb. .0415- —
40%, bgs., works.....lb. .0440- —
Vermilion, Amer., bbls .....lb .22¼- .48
Quicksilver, ctns.....lb. 2.27 - —
Red precipitate, NF, powd., fib. dms.lb. 2.17 - 2.19
Red saunders, wood, grd., bbls.....lb .35 - —
Resorcinol, tech., dms., works.....lb. .68 - —
USP, cryst., dms., works.....lb 1.70 - —
Rhatany root, bgs. .....lb. .11 - .12
Rhubarb root, whole, cs.....lb. .60 - .65
powd., bbls.....lb. .65 - .70
Riboflavin, bots. .....kilo.150.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif.lb. .79 - —
Rochelle salt, gran., powd., bbls., 5,000 lbs..lb. 32½- —
smaller lots.....lb. .35 - —
Rose flowers, pale, bls. .....lb. .24 - .26
Rosemary flowers, bls. .....lb. 1.55 - 1.65
Leaves, French, bls. .....lb. .13 - 13½
Portuguese, bls. .....lb. .07½- .08
Spanish, bls. .....lb. .13 - 13½
Rosin, gum (see Naval Stores, Protective Coatings market).
Wood, B, dms., c.l., works..100 lbs. 5.60 - —
FF, dms., c.l., works.....100 lbs. 6.50 - —
G, H, I, dms., c.l., works..100 lbs. 8.85 - —
K, dms., c.l., works.....100 lbs. 8.85 - —
M, dms., c.l., works.....100 lbs. 8.85 - —
N, dms., c.l., works.....100 lbs. 8.85 - —
WG, dms., c.l., works.....100 lbs. 8.90 - —
WW, dms., c.l., works.....100 lbs. 8.90 - —
X, dms., c.l., works.....100 lbs. 9.00 - —
Rotenone, cryst., bbls., works.....lb.20.00 -24.00
Extract, liq., dms., works, per unit 1.75 - —
Powder (see Cube root).
Rottenstone, bgs., c.l., mines....ton.36.00 - —
l.c.l., mines .....ton.43.00 - —
Rue herb, bls. .....lb. .45 - .48
Rutin, bots .....gram. 28½- .60

S

Sabadilla seed, powd., bbls.....lb. .72 - .75
activated ground with lime, bbls.lb. .42 - .50
Saccharin, gran., soluble, 1,000 lbs..lb. 1.40 - 1.90
smaller lots.....lb. 1.50 - 2.30
powd., soluble, insoluble, dms., 1,000-lb. lots..lb. 1.45 - —
smaller lots.....lb. 1.55 - —
Safflower (see Saffron, Mexican).
Saffron, Mexican, bls.....lb. 1.50 - 1.55
Spanish, USP, tins.....lb.32.00 -32.50
boxes .....lb.31.00 -31.50
Safrol, ens. .....lb. .95 - 1.45
Sage, Cyprian, bls. .....lb. .14 - .14½
futures, bls. .....lb. .14½- .15
Dalmatian, bls. .....lb. .25 - .26
Greek, fancy, bls. .....lb. .18 - .18½
Palestine, bls. .....lb. .16 - .16½
Spanish, bls. .....lb. .13½- .14
Syrian, bgs.....lb. .21 - .21½
Sago flour, bgs.....lb. .09 - .09¼
Salicin, bots. .....lb. No stocks
ens. .....lb. No stocks
Saligenin, dms., works.....lb.15.00 -20.00
Salol, gran., bbls., kgs. .....lb. 1.00 - —
fib. dms. .....lb. 1.02 - 1.03
Powdered salol, 10c. higher
Salt, rock, bgs., c.l. .....ton 17.50 - —
l.c.l. .....ton.21.70 - —
Salt, table, vacuum, common, fine, bgs., c.l..ton.18.00 - —
l.c.l. .....ton.25.10 - —
Saltcake, dom., bulk, works.....ton.20.00 -26.00
Chrome (see Chrome cake).
Saltpeter, cryst., bbls., 10 tons 100 lbs.12.40 - —
smaller lots.....100 lbs.12.65 -12.90
gran., bbls., 20 tons.....100 lbs. 8.00 - —
smaller lots.....100 lbs. 9.00 - 9.50
powd., bbls., 20 tons.....100 lbs. 9.00 - —
smaller lots .....100 lbs.10.00 -10.50
Saltpeter in bags is 25c. per 100 lbs. less than in barrels; in kegs it is $1 more.
Sanguinarine nitrate, bots.....oz. 4.75 - 5.50
Santonin, cryst., powd., ens.....kilo.175.00 -185.00
Saponin, No. 1, ens. .....lb. 2.45 - —
Sarsaparilla root, dom., bls. .....lb. .45 - .50
Honduras, bls.....lb. .50 - .55
Mexican, bls.....lb. .52 - .53
Sassafras bark, ord., bls. .....lb. .45 - .50
select, bls. .....lb. .65 - .70
Savory, French, bls. .....lb. .21 Nom.
Saw palmetto berries, bgs.....lb. .24 - .25
Scammony resin, lump, ens. .....lb. 2.10 - 2.25
powd., ens. .....lb. 2.20 - 2.30
Root, bgs. .....lb. .13 - .14
Schaeffer's salt, bgs. .....lb. .60 - —
Seidlitz mixture, bbls., 5,000 lbs...lb. 27½- —
smaller lots.....lb. 28½- —
kegs, 5,000 lbs. .....lb. 28½- —
smaller lots .....lb. 29½- —
Selenium, powd., ens., 10-lb. lots..lb. 2.10 - —
ens., 1,000-lb lots.....lb. 2.00 - —
Senega root, bls. .....lb. 2.25 - 2.30



This sample bottle of CSC Alkaterge-C is on its way to answer a question. Somewhere, a manufacturer wants to know if this CSC chemical can do the job for him. He will put it through a practical test in his own factory. If it solves his problem as promptly as most CSC samples do, it will soon be followed by orders for gallons and drums.

CSC

A request for a sample of a fine CSC chemical is frequently the first step in making familiar products better, and new products possible.

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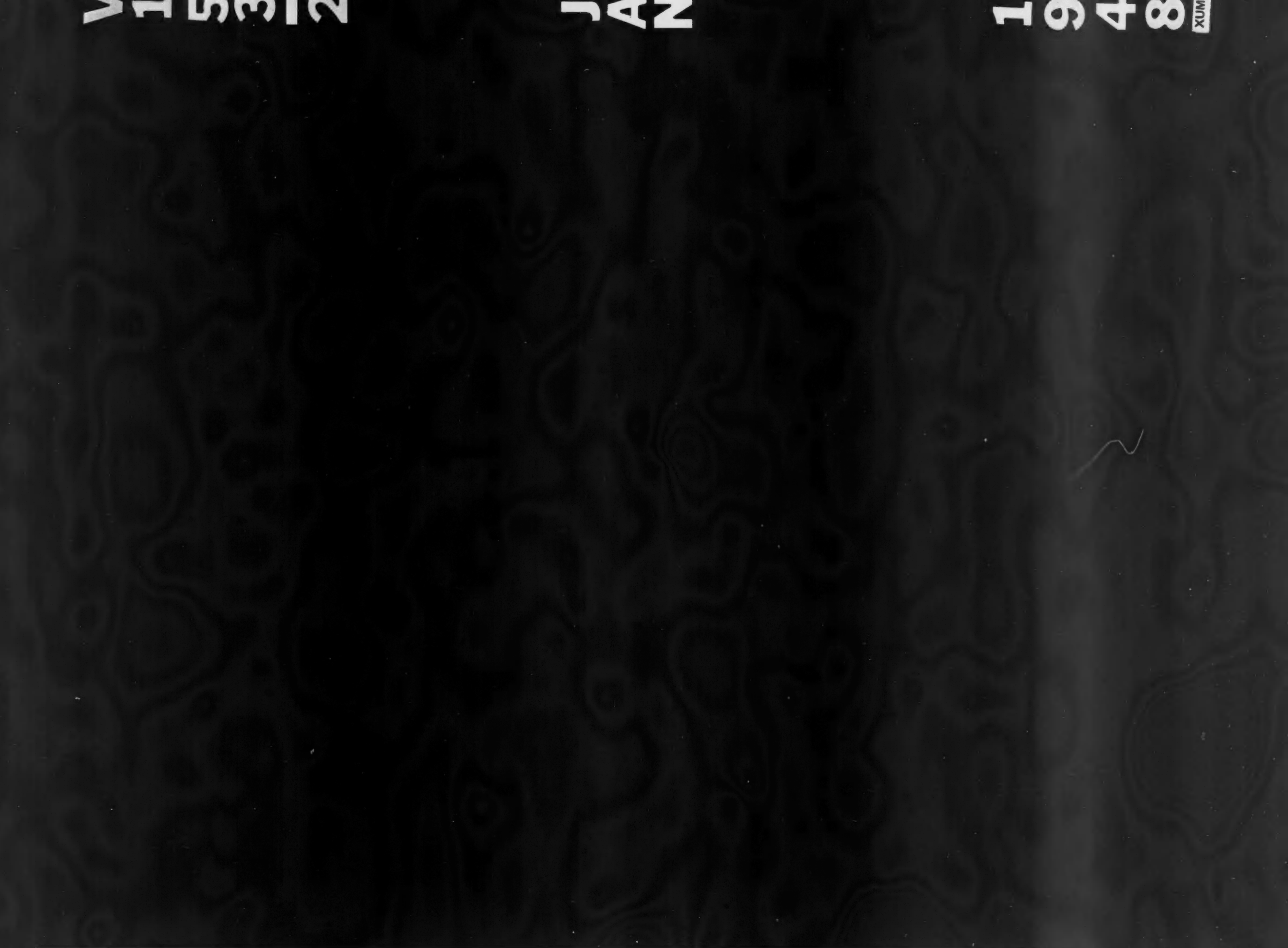
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U.S.I. CHEMICAL NEWS

January ★ A Monthly Series for Chemists and Executives of the Solvents and Chemical Consuming Industries ★ 1948

U.S.I. TO MARKET D&O INSECTICIDES

New American Source of Alcohols, Chemicals Is Result of German War-Time Exigencies

Fischer-Tropsch Process Invented in 1931 – Work Began in 1914

When Hitler put his army on wheels, he started down a turnpike where all the service stations were owned by his enemies. Mechanization required gasoline, oil and lubricants — and the world's petroleum was controlled by the United States, England, Russia and Holland. Technical advisors of the Wehrmacht surveyed all processes which gave promise of yielding oil in the quantities required.

First of a Series

Because of the numerous questions arising from articles in these columns concerning U.S.I.'s marketing of the products of the American version of the Fischer-Tropsch process, U.S.I. Chemical News is publishing a series af articles on various aspects of this subject. The first of these articles describes the history of the synthesis and the men who made it possible.

In the forefront of processes considered was one which came to be known as the Fischer-Tropsch synthesis from two chemists, Franz Fischer and Hans Tropsch. These men, independently and together, had been working since World War I on a scheme for producing hydrocarbon oils and fuel by putting together two gases, hydrogen and carbon monoxide. Even in those days Germany was interested in self-sufficiency and conservation of foreign exchange. Hydrogen and carbon monoxide could be obtained by passing steam over hot coal in the "water-gas" reaction discovered by an American, Thaddeus Lowe, in 1870. The ample supplies of coal in the Ruhr Valley are well known.

Process Commercially Feasible

In 1931, Fischer was able to announce a commercially feasible process, and a plant was placed in operation in 1936. Production rose steadily, and, by 1940, there were seven large plants operating, and two more were under construction. The total production was in the order of 740,000 tons per year, sufficient to keep the Panzers rolling and to oil the bearings of necessary industry.

Fischer Directed Kaiser Wilhelm Institute

The men whose chemical insight made the program possible are two German scientists, Franz Fischer and Hans Tropsch. When World War I broke out, Fischer, the senior

MORE

Change Effective January 1 Places Widespread U.S.I. Sales and Distribution Facilities at Disposal of Insecticide Firms

U.S.I. Cuts Price of DL-Methionine by 10%

The price of DL-Methionine, one of the amino acids essential for the growth and repair of animal tissue, has been cut 10 per cent by U.S.I., according to a recent announcement. This compound, which is in wide demand for pharmaceutical applications, is also reported to have potential use in manufactured feeds.

Free Booklet Available

A 6-page, profusely illustrated booklet entitled, "Solox, the General Solvent," is now available free on request from U.S.I. The text describes the use of Solox in shellacs, nitrocellulose lacquers, chemical manufacture, spirit varnishes, and for many other applications.

Piperonyl Butoxide is Now in Large-Scale Production

G. L. Haskell, president of U. S. Industrial Chemicals, Inc., has announced that effective January 1, the Insecticide Division of its subsidiary, Dodge & Olcott, Inc., will be transferred to U.S.I. and operated thereafter as an integral part of the parent company.

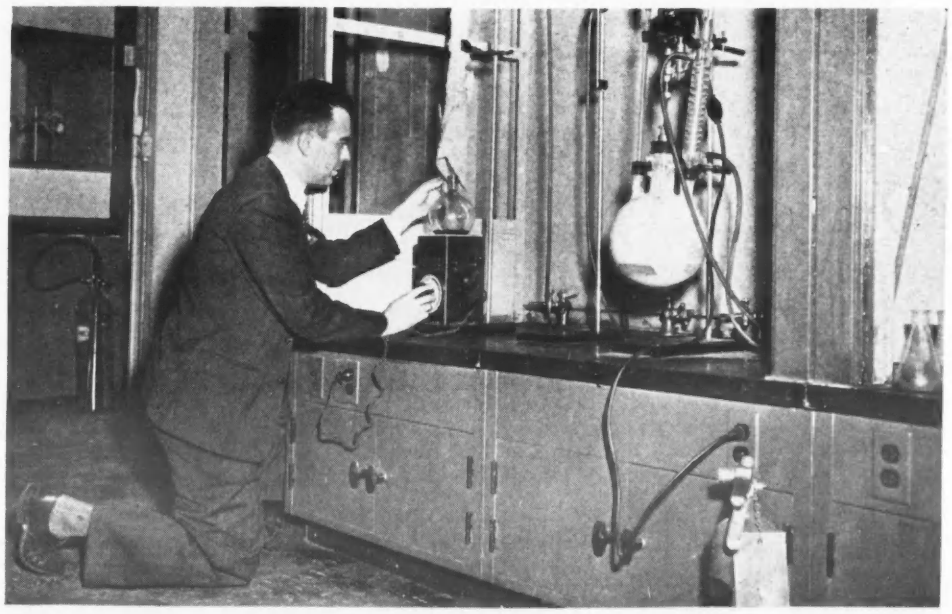
The coordination of U.S.I.'s activities in the insecticide and insectifuge field will continue to be directed by the same personnel.

This organization change, Mr. Haskell said, will enable Dodge & Olcott to concentrate its activities exclusively in the essential oil, flavoring and perfume raw material fields, where it has been a leader for almost 150 years. At the same time, it will place the widespread sales and distribution facilities of U.S.I. immediately at the disposal of the insecticide manufacturers in this country.

Safety Prime Consideration

The chemical and entomological research work of Dodge & Olcott in the insecticide field was initiated in 1939. It has been founded from the first on the basic idea that complete safety outranked all other considerations in

MORE



Constant research has been the keynote of D & O's progressive policy which has resulted in the development of many new insecticides. Beginning January 1, U.S.I. will market D & O insecticides.

ADVERTISEMENT—*This entire page is a paid advertisement*

January ★

U.S.I. CHEMICAL NEWS

★ 1948

CONTINUED

U.S.I. To Market D & O Insecticides

insecticide development. The products of this company are free from hazards to man, animals and plants.

Develops New Insecticides

In the beginning, adherence to these high safety standards restricted work at D & O to pyrethrum and rotenone materials. Simultaneously a line of chemical investigation was being conducted at the Mellon Institute by Dr. O. F. Hedenburg under a fellowship provided by the Insecticide Institute of America. After years of patient work, he developed a new class of synthetic organic chemicals, some of which were found to combine a high degree of toxicity against most forms of insect life with an amazing lack of toxicity to warm-blooded animals.

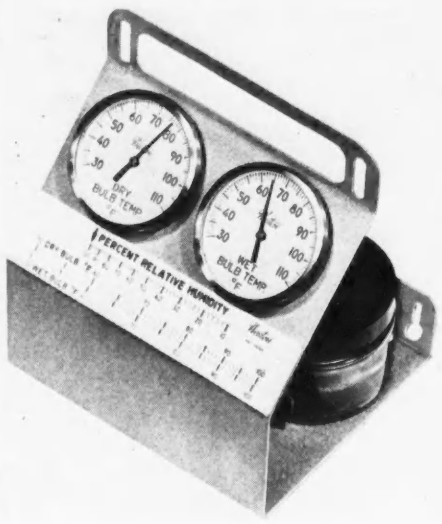
In 1943, Dodge & Olcott undertook the commercial development of Dr. Hedenburg's important basic research and shortly made the first of these chemicals commercially available. This chemical, then known as piperonyl cyclohexanone, is now called piperonyl cyclonene. In 1947, the even more valuable and versatile piperonyl butoxide was brought into large-scale production.

Intensifies Research Program

In 1945, Dr. W. E. Dove, formerly chief, division of insects affecting man and animals, the U. S. Government Bureau of Entomology and Plant Quarantine, joined the organization to take charge of an intensified entomological research program. Because of the fact that these chemicals, in addition to their inherent insecticidal value, display remarkable synergistic behavior with pyrethrum, rotenone, and other insecticide materials, problems of formulation and entomological evaluation have been unusually complex and the solution required the teamwork of an unusually competent staff of entomologists, chemists and pathologists working in close cooperation.

Even though recommendations for the commercial use of these chemicals have been consistently conservative, their application and the application of pyrenone concentrates based on various combinations of them with pyrethrum, has expanded at a rate which taxed production. To meet this demand, a major program of plant expansion was initiated and completed recently.

New Humidity Indicator



A new quick-reading, all-metal humidity indicator is said to provide readings of relative humidity to within 1 per cent. The instrument bears a simplified slide-rule calculator which gives relative humidity readings directly, eliminating the need for tables.

CONTINUED

Fischer-Tropsch

partner of the team, was director of carbonic research at the Kaiser Wilhelm Institute at Mulheim.

From then on he devoted his efforts entirely to the utilization of coal. He was soon joined by Hans Tropsch, a native of Sudetenland, who had studied under the great Hans Meyer. After working with Fischer for twelve years, Tropsch returned to his native Czechoslovakia to become Director of the Prague Institute for Carbonic Research. Fischer, however, worked alone on the same problem and was the one to announce the commercial success of the process.

TECHNICAL DEVELOPMENTS

Further information on these items may be obtained by writing U.S.I.

A radar process for sterilizing food is said to make canned foods more nutritious and tastier than when sterilized by steam or hot water. **(No. 275)**

U.S.I.

To determine the flexibility of dry paint films a new tester is now being marketed which is described as consisting of a number of cold-rolled steel rods of varying diameters. **(No. 276)**

U.S.I.

A new insulating plaster is a light density, fire resisting, granular material which forms a smooth plastic mass when mixed with water, the manufacturer states. It is alleged to form a durable insulating blanket which exhibits pronounced sound-absorbing qualities. **(No. 277)**

U.S.I.

"Non-breakable" bottles made from inert, flexible polyethylene have been announced. They are being used to handle chemicals, cosmetics, body deodorants, and lubricating oil, according to the producers. **(No. 278)**

U.S.I.

For high temperature lubrication, a new silicone oil has been developed which is said to have heat stability up to 500 degrees F., freedom from gumming, and good lubricity at medium to light loadings. **(No. 279)**

U.S.I.

To match original auto finishes, a new machine has been developed which is said to make it possible for the automotive service man to repaint a car by exactly duplicating the original paint job. The machine can make up any standard factory color, the makers state. **(No. 280)**

U.S.I.

To weld "hard-to-weld" metals, a new machine is on the market which is said to weld metals such as aluminum, magnesium, stainless steels, copper alloys, and others. **(No. 281)**

U.S.I.

A chemical resistant scotch tape, stated to be impervious to acids, alkalis, water, salt water, alcohols, and hydrocarbons, is offered for use in the protection of metal pipes, fillings, and equipment against corrosive fumes and acids. **(No. 282)**

U.S.I.

A new intermediate for the manufacture of anionic surface active agents by sulfonation has been announced. The sulfonated material possesses excellent wetting and detergent properties, and can be marketed in liquid, drum dried or spray dried form for industrial and household uses. **(No. 283)**

U.S.I.

To freshen air and counteract undesirable odors, two new units are offered which are claimed to be specially useful in freshening rooms after decorating or illness. **(No. 284)**

U.S.I INDUSTRIAL CHEMICALS, INC.

60 EAST 42ND ST., NEW YORK 17, N. Y. U.S.I. BRANCHES IN ALL PRINCIPAL CITIES

ALCOHOLS
Amyl Alcohol
Butanol (Normal Butyl Alcohol)
Fusel Oil—Refined

Ethanol (Ethyl Alcohol)
Specially Denatured—all regular and anhydrous formulas
Completely Denatured—all regular and anhydrous formulas
Pure—190 proof, C.P. 96%
Absolute
*Super Pyro Anti-freeze
*Solox proprietary Solvent

***ANSOLS**
Ansol M
Ansol PR

*Registered Trade Mark

ACETIC ESTERS
Amyl Acetate
Butyl Acetate
Ethyl Acetate

OXALIC ESTERS
Dibutyl Oxalate
Diethyl Oxalate

PHTHALIC ESTERS
Diamyl Phthalate
Dibutyl Phthalate
Diethyl Phthalate

OTHER ESTERS
*Diatol
Diethyl Carbonate
Ethyl Chloroformate
Ethyl Formate

INTERMEDIATES
Acetoacetanilide
Acetoacet-ortho-anisidide
Acetoacet-ortho-chloranilide
Acetoacet-ortho-toluidide
Acetoacet-para-chloranilide
Alpha-acetylbutyrolactone
5-Chloro-2-pentanone
5-Diethylamino-2-pentanone
Ethyl Acetoacetate
Ethyl Benzoylacetate
Ethyl Alpha-Oxalpropionate
Ethyl Sodium-Oxalacetate
Methyl Cyclopropyl Ketone

ETHERS
Ethyl Ether
Ethyl Ether Absolute—A.C.S.

FEED CONCENTRATES
Riboflavin Concentrates
*Vacatone 40
*Curbay B-G *Curbay Special Liquid

ACETONE
Chemically Pure

RESINS
Ester Gums—all types
Congo Gums—raw, fused & esterified
*Aroplaz—alkyds and allied materials
*Arofene—pure phenolics
*Arochem—modified types
Natural Resins—all standard grades

OTHER PRODUCTS
Calladions
Ethylene
Ethylene Glycol
Urethan
Nitrocellulose Solutions
DL-Methionine

Printed in U.S.A.

Senna leaf, Alex., half-leaf, bls. ..lb. .26 - .27
siftings, bgs. ..lb. .23 - .24
Tinnevelly, No. 1, bls..lb. .24 - .25
No. 2, bls..lb. .18 - .20
No. 3, bls..lb. .15 - .16
Pods, bls. ..lb. .15 - .16
Serpentaria root, bls..lb. 3.00 - 3.25
Shellac, bleached, bonedry, bgs., 1,500-lb. lots..lb. .63½ - —
bbls., 1,500-lb. lots..lb. .64 - —
kgs., 1,500-lb. lots..lb. .66 - —
refined, bgs., 1,500-lb. lots..lb. .71½ - —
bbls., 1,500-lb. lots..lb. .72 - —
kgs., 1,500-lb. lots..lb. .74 - —

bonedry shellac sales of less than 1,500 lbs., at following additions to prices:—1c., more for bgs., bbls., or kgs.

Lemon, No. 1, bgs..lb. .68 - .70
No. 2, bgs..lb. .66 - .68
Superfine, bgs., 10 bgs..lb. .61 - .62
TN, bgs., 10 bgs..lb. .59 - .60
Shellac in 1 to 9 bgs., 1c. more.

Silica, amorph., dry-grd. 325 mesh, bgs., c.l., lll. works..ton24.10 -40.00
l.c.l., works..ton29.00 - —
wet-grd., 320 mesh, bgs., c.l. works..ton24.00 -40.00
l.c.l., works..ton29.00 - —
Hard-quartz, 99½%, 325 mesh, bgs., c.l., works..ton26.00 - —
l.c.l., works..ton25.00 - —
140 mesh, bgs., c.l., works..ton15.00 - —
l.c.l., works..ton20.00 - —
Tetrachloride, tech., dms., c.l., works..lb. .15½ - —
l.c.l., works..lb. .16½ - .27
Silver bullion, ingots, cs. ..oz. .74 - —
Cyanide, lib. dms., 2,500-oz. lots..oz. .62½ - —
1,000-oz. lots..oz. .62½ - —
500-oz. lots..oz. .62¾ - —
250-oz. lots..oz. .63 - —
Nitrate, CP, cryst., bots., 2,500-oz. lots..oz. .48 - —
1,000-oz. lots..oz. .49¼ - —
500-oz. lots..oz. .49½ - —
250-oz. lots..oz. .49¾ - —

USP granular silver nitrate, 2c. per oz. higher.

Proteinate, mild, USP, bots., dms., 1,000-oz. lots..oz. .45 - —
strong, bots., dms., 1,000-oz. lots. oz. .40 - —
Simarubra bark, bls. ..lb. .85 - .86
Skullcap herb, Eastern, bls. ..lb. .85 Nom.
Western, bls. ..lb. .30 - .35
Skunk cabbage root, bls. ..lb. .44 - .45
Slate flour, bgs., c.l., works..ton.11.00 -12.00
l.c.l., ex whse..ton.20.00 -60.00
Sloe berries, bgs. ..lb. .33 - .40
Smalt, black, ctns. ..lb. .11 - —
Blue, ctns. ..lb. .16 - —
Snakeroot, Canada, bls. ..lb. .63 - .65
Soapbark, bls. ..lb. .18 - .19
crushed, bls., bbls. ..lb. .25 - .26
cut, foreign, bbls. ..lb. .30 - .31
powd., bbls. ..lb. .28 - .29
Soda ash, dense, 58%, paper bgs., c.l., works..100 lbs. 1.38 - —
l.c.l., stock points, zone 1..... 100 lbs. 2.78 - —
2 .....100 lbs. 2.88 - —
3 .....100 lbs. 3.28 - —
4 .....100 lbs. 3.83 - —
bbls., c.l., works..100 lbs. 1.78 - —
l.c.l., stock points, zone 1..... 100 lbs. 3.18 - —
2 .....100 lbs. 3.28 - —
3 .....100 lbs. 3.63 - —
4 .....100 lbs. 4.23 - —
bulk, c.l., works..100 lbs. 1.18 - —
light, 58%, paper bgs., c.l., works. 100 lbs. 1.30 - —
l.c.l., stock points, zone 1..... 100 lbs. 2.65 - —
2 .....100 lbs. 2.80 - —
3 .....100 lbs. 3.15 - —
4 .....100 lbs. 3.75 - —
bbls., c.l., works..100 lbs. 1.70 - —
l.c.l., stock points, zone 1..... 100 lbs. 3.05 - —
2 .....100 lbs. 3.20 - —
3 .....100 lbs. 3.55 - —
4 .....100 lbs. 4.75 - —
bulk, c.l., works..100 lbs. 1.10 - —

Soda ash prices f.o.b. stock points in zones indicated. Minimum quantity 500 lbs. For less than 500 lbs. prices are ex-warehouse. Sales zones are: (1) All States E. of Miss R. and N. of south bound. of Ky., 31°, Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones: Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn; Mo. (except St. Louis), Neb., E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb., W. of 98°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex

Caustic, flake, powd., 76%, dms., c.l., works..100 lbs. 3.25 - —
l.c.l., dlvd. zone 1....100 lbs. 4.60 - —
zone 2 .....100 lbs. 4.75 - —
zone 3 .....100 lbs. 5.10 - —
zone 4 .....100 lbs. 5.70 - —
liquid, 50%, sellers' tanks, works, dry basis..100 lbs. 2.15 - 2.25
70%, sellers' tanks, works, dry basis..100 lbs. 2.35 - —
50%, rayon type, tanks, works, dry basis..100 lbs. 2.25 - —
solid, 76%, dms., c.l., works..100 lbs. 2.85 - —
l.c.l., dlvd. zone 1....100 lbs. 4.20 - —
zone 2 .....100 lbs. 4.35 - —
zone 3 .....100 lbs. 4.70 - —
zone 4 .....100 lbs. 5.30 - —

Prices f.o.b. stock points in zones indicated, minimum quantity 500 lbs.; for less than 500 lbs., prices are ex-warehouse. Soda caustic zones are same as soda ash.

Sal, bgs., c.l..100 lbs. 1.35 - —
works ..100 lbs. 1.10 - —
bbls., c.l..100 lbs. 1.40 - —
works ..100 lbs. 1.20 - —
Sodium aceiate, anhyd., dms., dlvd..lb. .09½ - .11
cryst., NF, bbls..lb. .07½ - .08¼
Alginate, refined, water-soluble, bbls., works..lb. .79 - —
semi-refined, bbls., works..lb. .42 - —
white, powd., dms, works..lb. 1.50 - 1.60
Alkylbenzene-sulphate, dms., works. lb. 13 - —
Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.60 - —
l.c.l., works..100 lbs. 8.40 - —
other uses, bgs., c.l., works.100 lbs. 7.00 - —
l.c.l., works..100 lbs. 7.50 - 8.00
Antimoniate, bbls., c.l., dlvd..lb. .27 - —
l.c.l., dlvd..lb. .27¾ - —
Arsenate, dealers, dms., c.l., works. lb. 12 - —
l.c.l., works..lb. .13½ - .13¾
Arsenite, gray, dealers, dms., c.l., works..lb. .10¾ - —
l.c.l., works..lb. 13¼ - .13¾
Sodium arsenite, gray, ¾c. higher in Chi., 2c. higher in Houston, Tex., and Palo Alto, Calif.
Benzoate, tech., bbls., 2 tons..lb. .39 - —
smaller lots..lb. .40 - .41
USP, dms., 2 tons..lb. .46 - —
smaller lots..lb. .47 - .52

Sodium bicarbonate, USP, gran., bgs., c.l., works..100 lbs. 2.25 - —
l.c.l., works..100 lbs. 2.75 - —
powd., bgs., c.l., works..100 lbs. 1.85 - —
l.c.l., works..100 lbs. 2.35 - —
Bichromate, bgs., c.l., works..lb. .09 - —
l.c.l., works..lb. .09¼ - .09¾
Sodium bichromate, in bbls., ¼c. higher.
Bifluoride, bbls., c.l., frt. alld. E..lb. .11½ - —
l.c.l., frt. alld..lb. .13 - .14
kgs., l.c.l., frt. alld..lb. 12½ - .14
Bisulphite, powd., bbls., c.l., works. 100 lbs. 3.50 - —
l.c.l., works ..100 lbs. 4.00 - —
solut, 32°, bbls., c.l., works..100 lbs. 1.30 - —
l.c.l., works..100 lbs. 1.65 - —
35°, bbls., c.l., works..100 lbs. 1.40 - —
l.c.l., works..100 lbs. 1.55 - —
40°, bbls., c.l., works..100 lbs. 1.55 - —
l.c.l., works..100 lbs. 1.80 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works. lb. .33 - .34
Cacodylate, bots., dms..lb. 9.00 -12.00
Carbonate (see Soda ash, Soda sal, Sodium monohydrate).
Chlorate, cryst., dms., c.l., works..lb. .07½ - —
l.c.l., works ..lb. .07½ - .08
powd., kgs., works..lb. .08¾ - —
Chloride (see Salt).
Chlorite, tech., dms., works..lb .75 - —
Chromate, bbls., dms., c.l., works..lb. .10¾ - —
l.c.l., works..lb. .10¾ - .11
Citrate, USP VIII bbls..lb. .20 - —
dms. ..lb. .21 - 25

Sodium citrate, USP XIII, gran., bbls. lb. .26 - —
dms. ..lb. .27 - .31
Sodium citrate, USP XIII, powd., prices ½c. higher.
Cyanide, 96-98%, dms..lb. .14½ - .15
Diacetate, 33-35% acidity, bbls., works, dlvd..lb. .10½ - .11½
anhydrous, dms., works..lb. .11½ - .13
Fluoride, white, 90%, bbls., c.l., works..lb. .09½ - —
l.c.l. works..lb. .09¾ - —
95%, bbls., c.l., works..lb. .09¾ - —
l.c.l., works..lb. .10 - —
Formate, bgs., c.l. works..lb. .0605 - .0650
l.c.l. ..lb. .07 - .0790
Glutamate, monobasic, kgs..lb. 1.46 - 1.48
Glycerophosphate, NF, flake, bbls. lb. 1.65 - 1.80
powder, bbls. ..lb. 1.70 - 1.85
solution, 75%, cbys..lb. 1.00 - 1.10
50%, cbys. ..lb. .82 - —
Hydrosulphide (see Sodium sulphydrate).
Hydrosulphite, dms., c.l., frt. alld..lb. .18½ - .19
l.c.l., frt. alld..lb. .19 - .20
Hydroxide, tech. (see Soda, caustic).
USP, sticks, dms..lb. .24 - .29
Hypophosphite, NF, cns..lb. .65 - .70
Hyposulphite, tech., cryst., bgs., c.l., works, frt. equald..100 lbs. 2.75 - —
l.c.l., same basis..100 lbs. 3.15 - —
pea cryst., bgs., works, frt. equald..100 lbs. 4.30 - 5.25
Soda, hyposulphite, crystals, lp bbls., 40c. higher; pea crystals, dms., 50c. higher.
USP (see Sodium thiosulphate).

Sodium iodide, USP, dms., jars..lb. 2.72 - 2.83
Mandelate, dms. ..lb. 3.25 - 3.35
Metaborate, gran., bgs., c.l., works. ton.90.50 - —
l.c.l., works..ton.108.00 -113.00
Sodium metaborate in bbls., $20 per ton higher
Metanilate, bgs. ..lb. .48 - —
Metasilicate, anhyd., bbls., c.l., works 100 lbs. 4.00 - —
gran., bgs., c.l., works..100 lbs. 3.25 - —
l.c.l. ..100 lbs. 4.35 - 4.60
bbls., c.l., works..100 lbs. 3.65 - —
l.c.l. ..100 lbs. 4.75 - 5.00
Molybdate, anhyd., works..lb. .50 - —
Monohydrate, bgs., c.l., works. 100 lbs. 2.00 - —
l.c.l., works..100 lbs. 2.45 - —
Naphthionate, bbls..lb. .46 - .55
Nitrate, crude, dom., bgs., c.l., works..ton.40.50 - —
bulk, c.l., works..ton.37.00 - —
Imp., 100-lb bgs., c.l., Atl. Gulf, Pac. whse..ton.48.00 - —
bulk, c.l., same basis..ton.44.50 - —
Nitrite, 99%, bbls., c.l., works, frt. squald..lb. .06¾ - —
West coast ports..100 lbs. 8.00 - 8.05
l.c.l., dlvd..100 lbs. 8.90 -11.00
Orthosilicate, anhyd., dms., c.l., works..100 lbs. 5.25 - —
l.c.l., same basis..100 lbs. 5.55 - 7.10
hydrated, flake, bbls.,c.l., works. 100 lbs. 4.25 - —
l.c.l., works ..100 lbs. 5.50 - 5.75
Oxalate, neut., bgs., works..lb. .10 - —

Investigate

Cowles

DRYMET*

DRYMET is commercial anhydrous sodium metasilicate. DRYMET contains no water—combined or uncombined. It is the most highly concentrated form of metasilicate on the market.

DRYMET yields more chemical value per pound than other detergent silicates—and it is priced to yield more chemical value per dollar.

DRYMET is readily soluble in all practical concentrations at all practical temperatures.

DRYMET has a total alkalinity as Na_2O of not less than 50%.

DRYMET yields a pH of 11.55 in a .06% solution. DRYMET will improve the detergent efficiency of practically every alkaline solution.

Write for DRYMET File Folder containing complete technical information and suggested formulations.

*Reg. U. S. Pat. Off.

DRYMET is available for immediate shipment.

The Cowles Detergent Company

HEAVY CHEMICAL DEPARTMENT

7014 EUCLID AVENUE • CLEVELAND 3, OHIO

Sodium Pentachlorophenate—Sumac Leaves

Sodium pentachlorophenate, briquets, bgs., works, frt. equald..lb. .17 - .19
powd., bgs., c.l., same basis..lb. .16 - .16¼
l.c.l., same basis.....lb. .17 - —
kgs., l.c.l., works, frt. equald..lb. .19 - —
Perborate, USP, bbls., c.l., works..lb. 14½- —
l.c.l., works.....lb. 15½- —
Peroxide, dms., c.l., dlvd. E. of Miss. lb. .14 - —
smaller lots, same basis.....lb .17 - —
Phosphate, dibasic, anhyd., bgs., c.l., works..100 lbs. 6.25 - —
l.c.l., works.....100 lbs. 6.75 - 7.00
cryst., bgs., c.l., works..100 lbs. 3.50 - —
l.c.l., works.....100 lbs 3.75 - 3.90
NF, dried, powd., dms., works. lb. .16 - .16½
monobasic, anhyd., bgs., c.l., works. 100 lbs. 7.25 - 8.25
l.c.l., works.....100 lbs. 7.65 - 9.00
tribasic, anhyd., bgs., c.l., works, frt. equald. 100 lbs. 7.25 - —
l.c.l., same basis.....100 lbs 7.75 - —
cryst., bgs., c.l., works, frt. equald..100 lbs. 3.40 - —
l.c.l., same basis.....100 lbs. 3.55 - —
kgs., c.l., same basis.....100 lbs. 4.25 - —
l.c.l., same basis.....100 lbs. 4.45 - —

Sodium phosphates in bbls. 40c. higher than bgs.

USP (see Sodium phosphate, dibasic).
Prussiate, yellow, bgs.....lb. .12 - —
bbls.....lb. .12½- —
Pyrophosphate, acid, bgs., c.l., works, frt. equald..100 lbs.10.50 -11.25
l.c.l., same basis.....100 lbs.10.75 -12.00
ferric, dms., 10,000 lbs., works. lb. .22 - —
smaller lots, works.....lb. .22½- —

Sodium pyrophosphate, tetrabasic, anhyd., bgs., c.l., works, frt. equald..100 lbs. 6.00 - —
Ricinoleate, tech., bbls.....lb. No stocks
Salicylate, dms.....lb. .57 - .60
Sesquicarbonate, bgs., c.l., works. 100 lbs. 1.60 - —
bbls., c.l., works.....100 lbs. 1.80 - —
Sesquicarbonate, bbls., l.c.l., dlvd., zone 1..100 lbs. 2.70 - —
zone 2.....100 lbs. 2.85 - —
zone 3.....100 lbs. 3.10 - —
zone 4.....100 lbs. 3.50 - —

Sodium sesquicarbonate l.c.l. price zones are same as those for soda ash.

Sesquisilicate, bbl., c.l., works. 100 lbs. 4.15 - —
l.c.l., dlvd. .....100 lbs. 5.40 - 5.65
Silicate, 40°, turbid., dms., c.l., works..100 lbs. 1.00 - —
l.c.l., works .....100 lbs. 1.25 - 1.35
tanks, works.....ton.15.00 - —
52°, turbid, dms., c.l., works..... 100 lbs. 1.65 - —
l.c.l., works .....100 lbs. 1.90 - 2.00
tanks, works .....ton.29.00 - —
Silicofluoride, bbls., c.l., works....lb. .06½- —
l.c.l., works .....lb. .07 - —
Stannate, dms., works, frt. alld. E..lb. .43½- .47½
Stearate, bbl., works.....lb. .19 - .24
Sulphate, NF VII, dried, powd., bbls. lb. .10 - 10½
tech., anhyd., bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.35 - 2.60
cryst. (see Glauber's salt).
USP, cryst., gran., bbls.....lb. .07 - .07½

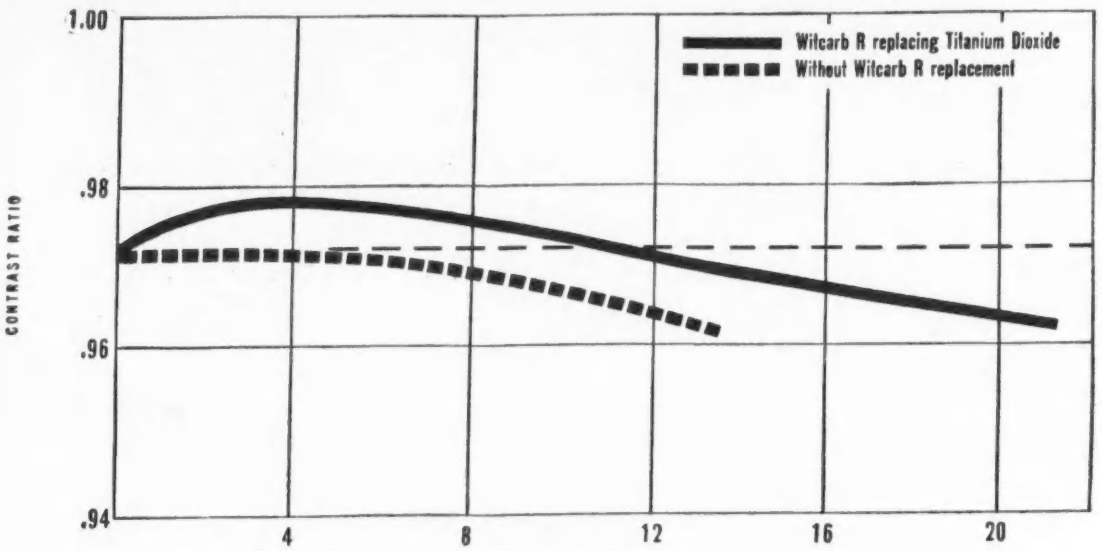
Sodium sulphanilate, bbls., works..lb. .21¾- —
Sulphide, cryst., bbls., c.l., works. 100 lbs. 3.75 - —
l.c.l., dlvd.....100 lbs. 4.15 - —
flake, bbls., c.l., works....100 lbs. 4.50 - 5.50
l.c.l., works.....100 lbs. 5.00 - 5.75
lump, bbls., c.l., works...100 lbs. 4.00 - 5.50
l.c.l., dlvd.....100 lbs. 4.50 - 5.75
Sulphite, cryst., bgs., c.l., works. 100 lbs. 2.60 - —
l.c.l., works.....100 lbs 3.00 - —
bbls., c.l., works.....100 lbs. 5.00 - —
l.c.l., works.....100 lbs. 5.40 - —
powd., bbls., c.l., works....100 lbs. 5.25 - —
l.c.l., works.....100 lbs. 5.50 - 6.00
Sulphocarbolate, USP (X, gran., bbls., dms..lb. .33 - .34
powd., bbls.....lb. .36 - .37
Sulphocyanide, CP, dms.....lb. .55 - .65
tech., dms., works.....lb .30 - —
Sulphoricinoleate, bbls.....lb. .12 - —
Sulphydrate, flake, 70-72%, dms., c.l. lb. .05 - —
liquid, 45%, tanks, works...lb. .04¼- —
Thiocyanate (see Sodium sulphocyanide).
Titanate, ctns., c.l., works.....lb. .10 - —
5 tons, works.....lb. .10¼- —
2,000 lbs. and less, works.....lb. .10½- .13½
Tripolyphosphate, bgs., c.l., works, frt. equald..lb. .07½- —
l.c.l. .....lb. .07¾- —
Thiosulphate, tech. (see Sodium hyposulphite).
USP, cryst., bbls.....lb .10 - 12
Tungstate, tech., bgs.....lb. 1.40 - 1.45
Sodium-ammonium phosphate, bbls., works, frt. equald..lb. .23 - —
Sodium-carboxymethylcellulose, high vis., ctns., 2,000 lbs., works frt. alld...lb. .66 - —
smaller quantities, same basis.lb .70 - —

Sodium-carboxymethyl cellulose, low and med. vis., ctns., 2,000 lbs. same basis..lb. .62 - —
smaller quantities, same basis.lb. .68 - —
Sodium-cinchophen, bots., dms., works. lb. 5.00 - 5.10
Sodium-formaldehyde sulphoxalate, stand. cont..lb. 19 - .22
Sodium-sulpha drugs (see Sulpha name).
Solvent naphtha, coaltar, dms., works. gal. .28 - —
tanks, E. of Omaha, frt. alld. gal. .28 - —
W. of Minnequa, Colo., works. gal. .23 - —
high-flash, dms., works.....gal. .32 - —
tanks, frt. alld. E. of Omaha to 2c. to 3¼c. per gal..gal. .27 - —
Petroleum, 100° F. flash, tanks, Baytown, Tex..gal. .27 - —
150°F. flash, tanks, same basis. gal. .27 - —
Sorbitol, com'l, dms., c.l., works in 25½- —
l.c.l., works .....lb. .26 - .35
Soybean flour, industrial, bgs., 40,000 lbs., works..lb. .067 - —
20,000 lbs., works.....lb. .069 - —
smaller lots, works.....lb. .071 - —
Protein, bgs., 40,000 lbs., works..lb. .29 - —
20,000 lbs., works.....lb. .29½- —
smaller lots, works.....lb .29½- .33
Spearmint leaves, bls.....lb. .48 - .49
Spikenard root, bls.....lb. .45 - .46
Spruce extract, liq., reg., tanks, works. lb. .01¾- —
powd., super, bgs., c.l., works..lb. .05¼- —
Squaw vine, leaves, bls.....lb. .45 - .50
Squill, red, fortified, powd., bbls., boxs. lb. 1.60 - —
White, bls. .....lb. .10 - .12
powd., bbls., bxs.....lb. .16 - .20
St. Ignatius beans, bgs.....lb. No stocks
St. John's bread, edible, bls.....lb. .12 - .18
Starch, corn, pearl, paper bgs., c.l. 100 lbs. 7.06 - —
Chicago .....100 lbs. 6.52 - —
l.c.l. .....100 lbs. 7.21 - —
powd., paper bgs., c.l.....100 lbs. 7.17 - —
Chicago .....100 lbs. 6.63 - —
l.c.l. .....100 lbs. 7.32 - —

Prices for corn starch in cotton bags, 17c. higher.

Potato, bgs., c.l.....lb. .1180- —
l.c.l. .....lb. .12½- —
Rice, bgs., c.l.....lb. No stocks
Sweetpotato, bgs., c.l.....lb. No stocks
Wheat, bgs. .....lb. .0745- .0795
Stavesacre seed, bgs.....lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls.....lb. .45 - .50
Stoneroot, bls.....lb. .07½- .08
Storax, USP, cs.....lb. 1.00 - 1.10
Stramonium leaves, bgs.....lb. .22 - .25
Seed, bgs. .....lb. .20 - .21
Streptomycin, hospitals .....gram. 2.52 - —
wholesalers .....gram. 2.24 - —
Strontium bromide, NF, cns., dms. cs. .62 - .75
Carbonate, 90%, bbls.....lb. .14 - .16
98% bbl.....lb. .23 - .25
Chloride, tech., bbls.....lb. .22 - .24
Chromate, bbls., kgs., Phila.....lb. .45 - —
Iodide, jars, 25 lbs.....lb. 3.00 - 3.06
Lactate, dms.....lb. 1.30 - 1.35
Nitrate, bbls., c.l., works.....lb. .07¾- —
l.c.l., works.....lb. .08¼- .08¾
Oxalate, bbls., works.....lb. .38 - .40
Salicylate, NF, dms.....lb. 1.25 - 1.32
Sulphate, air-floated, 90% 325 mesh, bbls., works..ton.58.99 - —
Strontium-calcium sulphide, phosphorescent dms., works..lb. 2.50 - 2.85
Strophanthin, bots.....oz.30.00 -50.00
Strophanthus seed, Kombe, bgs....lb. 2.25 - 2.50
Strychnine, NF, powd., cns., 100 ozs. oz. 1.25 - —
Sulphate, USP, powd., cns., 100 ozs. oz. 1.00 - —
Styrolyl acetate, bots.....lb. 2.50 - 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works..lb. .55 - —
tech., bbls., l.c.l., works.....lb. .50 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphadiazin, USP, dms., works...lb. 9.00 - 9.10
Sulphadiazin - sodium, USP, dms., works..lb.10.50 -10.60
Sulphaguanidin, USP, dms., works, lb. 4.50 - 4.60
Sulphamerazin, USP, dms., works, lb. 9.00 - 9.10
Sulphamerazin - sodium, USP, dms., works..lb.10.50 -10.60
Sulphanilamide, USP, powd., bots., works..lb. 1.05 - 1.10
Sulphanilamide, 30-60 mesh, 10c. higher.
Sulphapyridin, NF, powd., bots., tins, works..lb. 7.00 - 7.30
Sulphapyridin - sodium, powd., bots., dms., works..lb. 7.50 - 7.80
Sulphathiazole, USP, powd., dms., works..lb. 3.00 - 3.15
Sulphathiazole - sodium, USP, dms., works..lb. 3.00 - 3.15
Sulphonethylmethane, NF, kgs.....lb. 6.75 - 6.85
Sulphonmethane, NF, kgs.....lb. 5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract..long ton.18.00 - —
vessels, Gulf ports, contract. long ton.19.50 - —
export .....long ton.20.00 - —
flour, comm'l, 99½%, bgs., c.l., works..100 lbs. 1.90 - —
l.c.l., works .....100 lbs. 2.50 - 2.85
precipitated, USP, bbls., kgs....lb. .18 - .30
refined, flour, extra fine, bgs., c.l., works..100 lbs. 3.15 - —
l.c.l., works.....100 lbs. 3.50 - 3.90
heavy, bgs., c.l., works..100 lbs. 2.55 - 3.15
l.c.l., works .....100 lbs. 2.85 - 3.45
light, bgs., c.l., works....100 lbs. 2.75 - 3.15
l.c.l., works .....100 lbs. 3.05 - 3.75
flowers, USP, bgs., c.l.....100 lbs. 3.00 - —
l.c.l., works.....100 lbs. 3.30 - —
Refined sulphur flowers in bbls., 25c. higher
rocks, bgs., c.l., works....100 lbs. 2.75 - —
l.c.l., works .....100 lbs. 2.15 - 2.75
roll, bbls., c.l., works.....100 lbs. 2.45 - 3.05
l.c.l., works .....100 lbs. 2.45 - 3.45
rubbermakers', bgs., c.l., works, 100 lbs. 1.50 - 2.00
Sulphur chloride, 55-gal. dms., c.l., works..lb. .03½- —
l.c.l., works.....lb. .04¼- —
10-gal. dms., c.l., works.....lb. .07½- —
l.c.l., works.....lb. .08¼- —
Dioxide, liquid, com'l, cyls., works. lb. .09 - —
multi-unit cars, works.....lb. .0625- —
tanks, works .....lb. .045 - .0535
refrigeration, cyls., l.c.l., works. lb. — - —
Iodide, bots., jars.....lb. 3.90 - 4.11
Sumac bark, 28%, grd., bgs., ex dock. ton.80.00 - —
Extract, No. 1, bbls.....lb. .10½- —
No. 2, bbls.....lb. .09 - —
crystals, bbls.....lb. .40 - —
stainless, bbls. .....lb. .14½- —
Leaves, 30%, bgs., ex dock.....ton.85.00 - —

Hiding Power



Weight % Witcarb R substituted and/or weight % Titanium Dioxide Deducted

FORMULATION

	For 100-102 gals.
Titanium Dioxide	296 to 237 lbs.
Witcarb R	0 to 59 lbs.
Refined Linseed Oil	26 gals.
Medium Oil Alkyd Resin Solution, 49% solids	65 gals.

WITCARB R, when used in the manufacture of quality paints in quantities up to 10 to 12% of total pigment volume, improves performance in several respects:

1. ADDS TO DEPTH OF COLOR
2. CHECKS FLOWING
3. PREVENTS COLOR SEPARATION
4. RETARDS PENETRATION
5. GIVES HARDER FILMS

And right now there is still another important reason for using Witcarb R:

6. IT CONSERVES SCARCE PIGMENTS WITH NO LOSS IN HIDING POWER.

Ask for samples of Witcarb R and see for yourself. Or better still, request a call from a technical representative.

WITCO CHEMICAL COMPANY
MANUFACTURERS AND EXPORTERS
295 MADISON AVENUE · NEW YORK 17, NEW YORK
LOS ANGELES • BOSTON • CHICAGO • DETROIT • CLEVELAND • AKRON
SAN FRANCISCO • LONDON AND MANCHESTER, ENGLAND

Superphosphate run-of-pile, under 22% a.p.a., pulv., bulk, Balto.unit-ton. .76 - —
Florida .....unit-ton. .56 - .59
other points.....unit-ton. .57 - .59

Delivery points, Ariz., Calif., Colo., Ida., Kans., Nev., N. M., Ore., Utah, Wash., 88½c. per unit-ton plus frt. charges from Anaconda, Mont., in excess of $18.03 per ton; guaranteed 18, 19 or 20% a.p.a., ½c per unit-ton higher.
triple, 48% or more, a.p.a., pulv., bulk..unit-ton. .71 - —
South Carolina.....unit-ton. .75 - —
Tennessee .....unit-ton. .80 - —

Prices on 48% triple superphosphate in other states and D. C., 71c. per unit-ton plus frt. charges from E. Tampa, Fla. Superphosphate, gran., 2c. per unit-ton higher than pulverized.

Sweet basil, bls.....lb 1.10 1.25

T

Talc, dom., ordinary, grd., bgs., c.l., New York works. ton.21 00 - —
l.c.l., works.....ton.22.50 -24.50
Calif., bgs., c.l., works .....ton.22.00 -30.00
Vermont, bgs., c.l., works..ton.14.00 - —
l.c.l., works .....ton.17.50 - —
fibrous, New York, off-color, ground, bgs., c.l., works..ton.24.00 - —
l.c.l .....ton.26.50 -28.00
88 97-99.95%, grd., bgs., c.l., works..ton.21.00 - —
l.c.l., works.....ton.24.50 - —
98-99.5%, grd., bgs., c.l., works, ton.25.00 - —
l.c.l., works .....ton.30.00 - —
Imp., Canada, grd., bgs., c.l.....ton.35.00 -45.00
Tallow, inedible, extra, loose.....lb. .24½- —
fancy, loose.....lb. .24 - —
special, loose.....lb. .23½- —
sulphonated, 25%, dms.....lb. .12 - .12½
50%, dms.....lb. 14½- .15
Tamarinds, bbls. .....lb. .10 - .12
Tankage animal, feeding, 9-11% ammon., bulk..unit-ton.11.00 - —
Chicago .....unit-ton.11.00 - —
fertilizer, 9% ammon., 10% b.p.l., Chicago, unit-ton No stocks
10-11% ammon., 15% b.p.l., bulk bulk, unit-ton. No stocks.
Tansy leaves, bls .....lb. .15 - .16
Tapioca flour, high grades, bgs.....lb. .11 - .11½
medium grades, bgs.....lb. .09¼- .09½
Java, bgs. .....lb. No stocks
Tar acid oil, 15-18%, ret. dms., c.l., works..gal. .49 - —
l.c.l., works.....gal. .52 - —
tanks, works.....gal. .43 - —
25-28%, dms., c.l., works.....gal. .00 - —
l.c.l., works.....gal. .63 - —
tanks, works.....gal. .54 - —
Tar, coal (see Coaltar)
Pine (see Pinetar)
Tara pods, bgs., c.l., ex dock U. S. ports..long ton. No prices
powd., bgs., c.l., same basis.long ton.225.00 Nom.
Tarragon herb, bgs.....lb. .23½- .24
Leaves, bgs.....lb. 1.10 - 1.25
Tartar emetic, tech., gran., or powd., bbls., kgs..lb. .41 - —
dms .....lb. .41½- .44
USP powd., bbls., dms., kgs...lb .45 - .48
Terpin hydrate, com'l, bbls., c.l....lb. .24½- —
l.c.l. .....lb. .25 - .25½
USP, cryst., bbls., dms.....lb. .70 - .75
powd. bbls., dms.....lb .75 - .80
Terpineol, Alpha (see A)
com'l, dms., c.l., South.....lb. 13½- —
l.c.l., South.....lb. 14 - —
tanks, South.....lb. 13 - —
pure dms .....lb. .40 - .56
extra, dms.....lb. .47 - .75
Terpinyl acetate, com'l, dms., c.l., works. lb. 19½- —
l.c.l. works.....lb. 20 - —
tanks, works.....lb. 19 - —
Terpinyl acetate, extra, cns., dms. lb. .65 - 1.10
prime, cns., dms.....lb. .61 - 1.00
Terra alba (see Gypsum).
Tetrachloroethane, dms., works ...lb. .08 - .08½
Tetrachloroethylene, USP, 55 gal. dms., works. lb. .20 - .21½
smaller dms., works.....lb. .23½- .25
tech. (see Perchloroethylene).
Tetraethyl orthosilicate, dms., works. lb. .66 - —
Tetraethylenepentamine, tanks, works. lb. .80 - —
Tetrapotassium phosphate (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium sulphate, 99%, bots., dlvd..lb 15.00 -17.50
Theobromine, bots., kgs.....lb 5.15 - —
Thiamine hydrochloride, dms., 100 grams..kilo 160.00 - —
Thiocarbanilide, dms. .....lb. .24 - —
Thiodiphenylamine (see Phenothiazine).
Thiouracil, dms., works.....lb. 5.50 - 5.60
Thiourea, tech., dms., works.....lb. .40 - —
Thorium nitrate, cs., works.....lb. 3.50 - —
Thyme, French, futures, bgs.....lb. .42 - .42½
futures, bgs. .....lb. .25½- .26
Spanish, bls. .....lb. .10½- .11
Thymol, USP, kgs.....lb. 3.65 - 3.75
Iodide, NF, dms.....lb 3.55 - 4.25
Tinbo root (see Cube root).
Tin crystals, bgs., bbls., works....lb. .60 - —
Metal, Bolivian.....lb. .91 Nom.
Straits .....lb. .94 - —
Oxide, bbls.....lb. .92 - .94
Tetrachloride, anhyd., dms., works, lb. .54½- .55
Titanium dioxide, anatase, chalk-resistant, bgs., c.l., dlvd.....lb. .17½- —
l.c.l., dlvd.....lb. .18 - .18½
plain, bgs., c.l., dlvd.....lb. .17½- —
l.c.l., dlvd.....lb. .18 - .19½
rutile, natural, granular, bgs., c.l., works..lb. .66¼- —
l.c.l., works.....lb. .66¼- —
milled, bgs., c.l., works.....lb. .66¼- —
l.c.l., works.....lb. .66¾- —
nonchalking, bgs., c.l., dlvd. E. lb. .19½- —
l.c.l., dlvd. E.....lb. .20 - .20½
Hydride, cns., works.....lb. 7.00 - 8.00
Pigment, barium base, bgs., c.l., dlvd..lb. .07 - —
l.c.l., dlvd.....lb. .07½- —
Calcium base, bgs., c.l., dlvd..lb. .06¾- —
l.c.l., dlvd.....lb. .07¼- —
Calcium-rutile base, bgs., c.l., dlvd. lb. .66¾- —
l.c.l., dlvd.....lb. .07¼- —
Magnesium base, bgs., c.l., dlvd.lb. No prices
l.c.l., dlvd.....lb. No prices
Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse., ½c. higher.
Tetrachloride, CP, 55-gal. dms., lb. .54½- .55
smaller, pkgs., works.....lb. .65 - 1.25
technical, 55-gal. dms., works..lb. .32 - —
smaller pkgs., works.....lb. .40 - 1.00
Tolu balsam, cns.....lb. 3.65 - 3.70
Toluene (see Toluol).
Tolidin base (see Orthotolidin).

Toluol (toluene) 2°, indust., ret. dms., works..gal. .28 - .29½
tanks, E. of Omaha, frt. alld..gal. .23 - .30
W. of Minnequa, Colo., works. gal. .23 - .30
1° nitration, ret. dms., works....gal. .28 - .29½
tanks, E. of Omaha, frt. alld..gal. .23 - .30
W. of Minnequa, Colo., works..gal. .23 - .30

Prices on 2° toluol from petroleum, tanks, delivered (maximum freight allowances in parentheses) are:—Ark., 30c. (3¾c.); Chicago, 30c. (2¾c.); Del.-Md.-D. C., 30c. (2¾c.); Detroit, 30c. (1 8/10c.); La., 30c. (3¾c.); N. C. & E. Tenn., 30c. (5c.); N. E., 30c. (2½c.); N. J., 30c.; N. Y., 30c.; Pa., 30c. (2¾c.); S. C., 30c. (6c.); Va., 30c. (3½c.); W. Tenn., 30c. (3¾c.), and W. Va. 30c. (2¾c.).

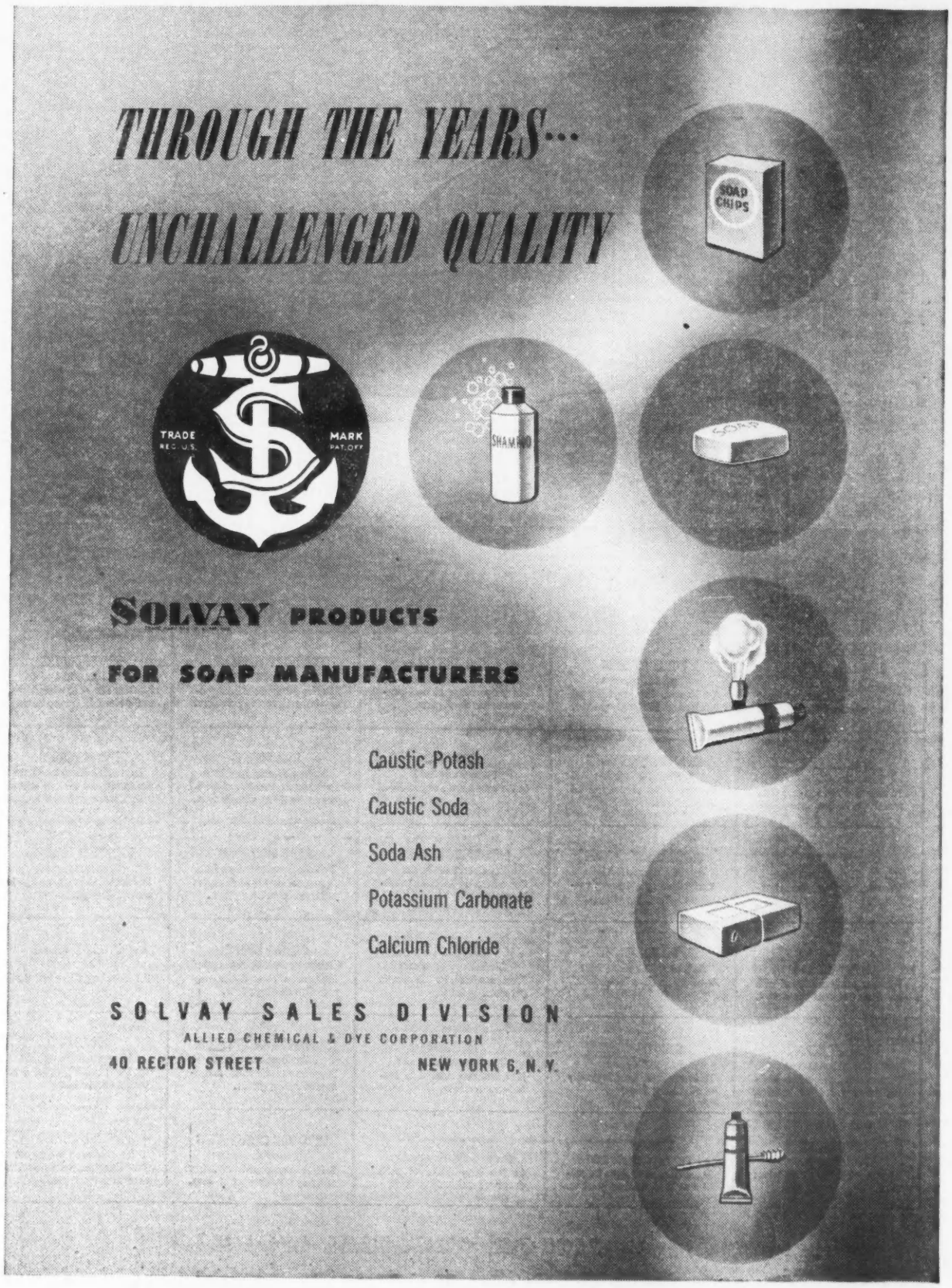
Tonga, 50% bark and vine, bls....lb. .90 - .91
Tonka beans, Angostura, cks.....lb. 1.75 - 1.80
Brazilian, cs.....lb. .90 - .95
Surinam, cs. .....lb. .85 - .90
Totaquine, USP, 100-oz. lots.....oz. .52 - —
Triacetin, dms., works.....lb. .40½- —
Tributyl citrate, dms.....lb. .41 - .50
smaller pkgs.....lb. .52 - .56
Phosphate, dms., l.c.l., frt. alld., E. of Rockies..lb .68 - —
smaller pkgs. .....lb. .72 - .74
Tributylamine, dms., c.l., works..lb. .78 - —
l.c.l., works .....lb. .81 - —
tanks, same basis.....lb. .07½- .09¼
Trichlorobenzene, dms., c.l., works, frt. alld. or equald..lb. .08½- .11
l.c.l., same basis.....lb. .09½- .12
Trichloroethane, dms., c.l., works..lb. .15 - —
l.c.l., works.....lb. .17 - —

Trichloroethylene, tanks, c.l., frt. alld., zone 1...lb. .09¾- —
zone 2 .....lb. .10½- —
zone 3 .....lb. .11 - —
zone 4 .....lb. .11 - —

Trichloroethylene dm., c.l. prices ½c. higher; l.c.l. 1¼c. higher. Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, Kans. City, Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont., (E), N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Tricresyl phosphate coaltar, dms., c.l., frt. equald..lb. .37½- —
l.c.l., dlvd.....lb. .38 - —
tanks, dlvd.....lb. .36 - —
petroleum, dms., c.l., dlvd.....lb. .38½- —
l.c.l., dlvd.....lb. .39 - —
tanks, dlvd.....lb. .37½- —
Triethanolamine, dms., c.l., frt. alld E..lb. .20½- —
l.c.l., same basis.....lb. .21½- —
smaller containers.....lb. .24½- —
tanks, same basis.....lb 19 - —
Triethyl citrate, dms.....lb .34 - .42
smaller pkgs.....lb. .45 - —
Phosphate, dms., works, c.l.....lb. .38 - —
dms., l.c.l., same basis.....lb .39 - —
tanks, same basis.....lb .37 - —
Triethylamine, dms., c.l., works, basis 100%..lb .34 - —
l.c.l., works, basis 100% .....lb .36 - —
tanks, works, basis 100%.....lb .33 - —

Triethyleneglycol, dms., c.l., frt. alld. E..lb. .18½- .19
l.c.l., same basis.....lb. .19½- .21
tanks, same basis.....lb. .17½- —
Triethylenetetramine, tanks, works.lb. 50 - —
Trimethylamine, anhydrous, cyl., works, basis 100%..lb .29½- 39½
25%-40%, dms., c.l., works, basis 100%..lb. 29 - —
l.c.l., works, basis 100%.....lb. .29½- —
tanks, works, basis 100%.....lb. 25 - —
Triphenyl phosphate, bbls., c.l., frt. equald..lb. .29 - —
l.c.l., frt. alld.....lb. .30 - —
Triphenylguanidine, bbls., works....lb. .75 - —
Tripoli, air-floated, bgs., c.l., works.lb 0175- —
double-grd., c.l., works.....lb. 016 - —
single-grd., bgs., c.l., works.....lb. 015 - —
Trisodium phosphate (see Sodium phosphate, tribasic).
Tuba root (see Cube root)
Tungsten metal, powd., 99.9%, dms., works..lb. 4.75 - —
Oxide, kgs., works.....lb. 2.85 - —
Turmeric root, Alleppey, bls.....lb. .24½- .25
Haitian, futures, bls.....lb. .13 - 13¼
Jamaica, futures, bls.....lb. 15½- 16
Madras, bgs. .....lb. .20 - .20¼
Turpentine, gum (see Naval Stores, Protective Coatings market)
Sulphate, ret. dms., East.....gal. 65 - —
tanks, East .....gal. 40 - —



Turpentine, Wood—Yellow, Chrome

Turpentine, wood, dest.-dist., dms., incl., c.l., works..South..gal. .45 - —
l.c.l., same basis.....gal. .48 - —
N. Y. whse.....gal. .60 - —
steam-dist., dms. incl., l.c.l., East. gal. .75 - —
tanks, South .....gal. .55 - —

U

Unicorn root, false (see Helonias root).
True (see Aletris root)
Uranium oxide, black, bgs.....lb 2.55 - —
yellow, kgs .....lb. 1.65 - —
Urea, dom., 46% N., bgs., c.l., works or ship pts..ton.73.00 - —
l.c.l., bgs., ship. pts.... ton.75.50 - —
fertilizer comp., 42% N., bulk, c.l., works or Atlantic or Gulf ports. ton.73.00 - —
Urea-ammonia liquor (A and B), free ammonia content, Belle, W. Va., freight equalized with Hopewell, Va...ton.59.00 - —
fixed ammonia content, Belle, W. Va., freight equalized with Hopewell, Va..NH_3-ton.112.80 - —
C and D prices for Urea-ammonia liquor are $1.20 per ton of nitrogen higher than the A and B respectively for the same destinations.
Uva ursi leaves, bls.....lb. .12 - .13

V

Valerian root, Belgian, NF, bls...lb. .45 - .46
Indian, bls. .....lb. .10 - .11
Valonia beards, bgs., ex dock....ton.78.00 -80.00
Cups, bgs., ex dock.....ton.56.00 -57.00
Extract, powd., bgs., ex dock, duty extra..lb. 09½- —
Vanadium pentoxide, CP bgs., cns., works..lb. 7.00 - —
tech., dms., works.....lb. 1.20 - —
Vanilla beans, Bourbon, tins.....lb. 7.75 - 8.50
Mexican, cuts, tins.....lb. 7.50 - 8.00
whole, tins .....lb. 8.25 - 9.50
Tahiti, tins.....lb 4.00 - 4.25
Vanillin, ex eugenol, tins, 25 lbs....lb. 4.50 - —
smaller lots .....lb. 4.55 - 4.65
ex guaicol, tins, 25 lbs.....lb 3.00 - —
smaller lots.....lb. 3.05 - 3.15
ex lignin, dms., 25-lb. lots.....lb 3.00 - 4.50
tins, smaller lots..... .....lb. 3.05 3.15
smaller lots, tins.....lb 3.05 - 3.15
Venice turpentine, artif., cns. ... lb. .24 - .25
Verdigris, bbls. .....lb .28 - .29
Vinyl acetate, 55-gal. dms., works..lb 16½- 17½
5-gal cns., works.....lb. 30 - —
tanks, works. .....lb. 15 - —
Trichloride (see Trichloroethane)
Vinylpyridin, ref., dms., works lb 1.50 - —
Viosterol, bots., 100 billion USP units mill units .04 - —
1 billion USP units.. mill units .05 - —
100 million USP units..mill units .07 - —
Vitamin A (see Oils, codliver, fishliver).
A concentrate, dms., works.... mill units .36 - .40
B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin)
B complex, natural (see Rice bran and Yeast).
B_6 (see Pyridoxin).
C (see Acid, ascorbic)
Vitamin D (see Oils, codliver and fishliver, Calcifero, and Viosterol).
D_2 (See Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
P-P (see Acid, nicotin, and Nicotinamide).
Violet, methyl, toner (see Mi.
V M.P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls.....lb. 2.25 - 2.80
Tree bark, bls.....lb .55 - .75
Wattle bark, fair average, or E. Afr., bgs., ex dock..ton.71.00 -72.00
merchantable, bgs., ex dock..ton.68.00 -69.00
extract, liquid, 35% tannin, bbls., works..lb. 07½- —
tanks, works .....lb. 06¾- —
solid, E. Afr., 61% tannin, ex dock, duty extra..lb. .07½- .07⅝
S. Afr., 62% tannin, ex dock, duty extra..lb. .07¾- .07¾
Wax, amorphous (see Wax, microcrystalline)
Bayberry, bgs.....lb. No stocks
Bees, bleached, USP, white, bricks, cs..lb. .70 - .73
slabs, bgs .....lb. .69 - .71
crude, African, bgs.....lb. .53 - .55
Western hemisphere, bgs.....lb. .55 - .59
refined, yellow, bricks, cs.....lb. .61 - .62
slabs, bgs.....lb. .60 - .61
Candelilla, crude, bgs.....lb. .61 - .62
refined, bgs.....lb .65 - .67

Powdered candelilla, 20 mesh, 5c. per lb. extra, 80 mesh, 5½c; 100-200 mesh, 6c

Wax, carnauba, chalky, No. 3, bgs., ton lots..lb. .78 - .80
North country, No. 2, ton lots....lb. .84 - .86
No. 3, bgs., ton lots.....lb. .80 - .81
refined, bgs., ton lots.....lb. .87 - .90
yellow, No. 1, bgs., ton lots.....lb. 1.43 - 1.48
No. 2.....lb. 1.38 - 1.43

Powdered carnauba price differentials same as powdered candelilla.

Ceresin, dom., 132°-136° m.p., bgs lb. 16 - .16½
138°-140° m.p., bgs.....lb. 18 - .18½
158°-162° m.p., bgs.....lb. 22 - 23
Japan, bgs.....lb. .57 - .58
Microcrystalline, 170°-175° m.p., ASTM, amber, cns. 30 tons yearly contract, group 3 works..lb. 16 - —
smaller lots, same basis....lb. 16 - 17½
170°-175° m.p., ASTM, black cns., 30 tons, same basis..lb. 14½- —
smaller lots, same basis....lb 14½ 15½
white, cns. 30 tons, same basis lb 27 - —
smaller lots, same basis . .lb 27 29
190°-195° m.p., ASTM, amber, cns., 30 tons, same basis..lb. 21 - —
smaller lots, same basis.....lb. 21 22
190°-195° m.p., ASTM, black, cns., 30 tons, same basis..lb. 19½- —
smaller cns., same basis....lb. 19½- 20½
white, cns., 30 tons, same basis lb. 34 - —
smaller lots, same basis.... lb 34 35
Montan, crude, bgs. .....lb. .44 - .45
Ouricury, crude, bgs., ton lots.....lb. .64 - .65
refined, bgs., ton lots.....lb. .71 - .72
Ozokerite, dom., 180-190 m.p., bgs., c.l.. lb. 30 - —
182-183 m.p., bgs., c.l.....lb 31 - —
171-172 m.p., bgs., c.l.....lb 27 - —
Spermaceti, blocks, cs.....lb. 43 - 45
cake, cs.....lb. 44 - 46
White lead (see Lead, white).
White precipitate, powd., dms., 50 lbs lb. 2.00 - —
White pine bark, rossed, bls.....lb. 20 21
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons, St. Louis, works ton.10.00 - —
40 tons, N. Y. whse.....ton.18.00 - —
smaller lots, St. Louis, works.ton 12.50 - —
wet-grd., air-floated, 99% 325 mesh, bgs., c.l.....ton.14.50 -27.50
99% 200 mesh, bgs., c.l....ton No prices
96% 200 mesh, bgs., c.l....ton No prices
wet-grd., water-floated, extra gilders, bgs., c.l..ton.14.50 -28.00
gilders, bgs., c.l. .....ton No prices
putty grade, bgs., c.l.....ton 13.00 - —
surface treated, bgs., c.l. Ohio works..ton 30.00 - —
Paris white, bgs., c.l.....ton 25.00 -31.00
l.c.l. .....ton 25.00 -29.00
Precipitated, bgs., c.l.....ton 18.00 -20.00
l.c.l. .....ton 22.00 -25.00
Wild cherry bark, thick, bls..... lb 06 - 07
thin, natural, bgs.....lb 17 - 18
rossed green, bls.....lb 24 - 26
Wild indigo root, bls.....lb 30 - 31
Witch hazel leaves, bls.....lb 25 - 26
Witherite (see Barium carbonate, naturab
Woodflour, 40 mesh, bulk, c.l., works, East..ton.32.00 - —
l.c.l., same basis.....ton.40.00 - —
60 mesh, bulk, c.l., same basis..ton.37.00 - —
l.c.l., same basis.....ton.45.00 - —
80-100 mesh, bulk, c.l., same basis, ton.40.00 -45.00
l.c.l., same basis.....ton.50.00 -55.00
Woodflour in bgs. extra, returnable.
Woolfat (see Lanolin)
Wormseed, American, bgs..... lb .47 - .48
Levant, bgs. .....lb 4.25 - 4.30
Wormwood, bls .....lb. .50 - .60

X

Xanthorrhiza root, bls.....lb. .28 .30
Xylene (see Xylol).
Xylenol, 5°-7°, ref. dms., c.l., works, frt. equald . lb 19¼- —
l.c.l., same basis..... lb 19¾- —
tanks, same basis ..... lb. 18½- —
fractions, ref. dms., c.l., same basis, gal. 1.26 - 1.53
l.c.l., same basis.....gal. 1.29 - 1.56
tanks, same basis.....gal. 1.20 - 1.47
Xylidins, mixed, dms.....lb. .38 - 38¼
Xylol (xylene), indust., ref. dms., works..gal. .30 - 31⅛
tanks, E. of Omaha, frt. alld...gal. .25 - .30
W. of Minnequa, Colo., works gal. .25 - .30
10°, ref. dms., works.....gal. .32 - .33⅛
tanks, E. of Omaha, frt. alld..gal. .27 - .28⅛
5°, ref. dms., works.....gal. .40 - .41⅛
tanks, E of Omaha, frt. alld..gal. .35 - .36⅛
3°, ref. dms., works.....gal. .45 - .46⅛
tnks, E of Omaha, frt. alld...gal. .40 - .41⅛

Prices on 3 to 10-degree xylol from petroleum, tanks, delivered (maximum freight allowances in parentheses) are:—Ark., 30c. (3½c.); Chicago, 30c. (2¾c.); Del.-Md.-D. C., 30c. (2¾c.); Detroit, 30c. (1 8/10c.); La., 30c. (3½c.); N. C. & E. Tenn., 30c. (5c.); N. E., 30c. (2¾c.); N. J., 30c.; N. Y., 30c.; Pa., 30c. (2¾c.); S. C., 30c. (6c.); Va., 30c. (2½c.); W. Tenn., 30c. (3½c.), and W. Va., 30c. (2½c.).

Y

Yara yara, cryst., bots., cns. ....lb. 1.62 - 1.75
Yeast, brewer's dry, 50 B units, per gram, dms..lb. .35 - —
50 B units, per gram, dms....lb. .45 - —
200 B units, per gram, dms....lb. .50 - —
300 B units, per gram, dms....lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul..lb. .32 - —

Barium chromate yellow price diffenentials in other States and city zones are those for chrome yellow below.

Benzidin, bbls., dlvd.....lb. 1.60 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies..lb. 2.40 - —
Lithopone, all shades, bbls., frt. alld. E. of Rockies..lb. .85 - —

Cadmium yellows, Los Angeles and San Francisco, ex whse. 1c. per lb. higher.

Chrome, CP, bbls., dlvd. N. Tenn., and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts..lb. .27 - —

Dlvd. Ala., Fla., Ga., La., Shreveport), 1½c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1¼c. higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago

—Continued on page 44

METAL	PETROLEUM	PHARMACEUTICALS	SOAP-DETERGENTS	CHEMICALS
RUST PREVENTION Phosphoric Acid To form a permanent rust proof coating on iron and steel products.	**OIL ADDITIVES** Alkyl Phosphates To improve the properties of lubricating oils and greases.	**ASTRINGENTS** Aluminum Phosphates For preparation of anti-perspirants and deodorants.	**CLEANING COMPOUNDS** Trisodium Phosphate Effective detergent in both commercial and household cleaners.	**PLANT FOODS** Take-Hold Provides nitrogen, phosphorus, and potash in transplanting.
CLEANING Trisodium Phosphate To remove oil and grease from metal parts and equipment.	**MUD CONDITIONERS** Sodium Phosphates To control the viscosity of oil drilling fluids.	**REAGENTS** Phosphoric Acid In the manufacture of penicillin.	**BAR SOAPS** Sodium Tripolyphosphate Superior soap builder which improves washing effectiveness.	**INSECTICIDES** Tetraethyl Pyrophosphate For sprays and dusts to control aphids, mites and other insects.
ALLOYS Phosphorus Manufacture of phosphor-bronze.	**REFINING KEROSENE** Phosphoric Acid Removal of gum forming constituents.	**POLISHING AGENTS** Calcium Phosphates Non-scratching dentifrice polishing agent.	**SOAP POWDERS** Tetrasodium Pyrophosphate To prevent soap curd formation and increase sudsing power.	**LEATHER TANNING** Sodium Formate Increases tannage speed in chrome tanning.
FINISHING Phosphoric Acid Forms a permanent bond with metal and a base for primer coat.	**PURIFYING GASOLINE** Tripotassium Phosphate Removes sulphur compounds.	**MINERALS** Dicalcium Phosphate Provides calcium for therapeutic purposes.	**LIQUID SOAPS** Tetrapotassium Pyrophosphate Produces a clear liquid soap with high sudsing power.	**PAINT-VARNISH** Oxalic Acid For bleaching floors and wood.
SHEET STEEL Ferrophosphorus Prevents steel sheets from sticking when rolled in bundles.	**MUD ADDITIVE** Ferrophosphorus To increase the specific gravity of oil drilling fluids.	**ANTACID** Tricalcium Phosphate Medicinal preparations to control excess acidity.	**SCOURING COMPOUNDS** Trisodium Phosphate Supplements abrasive component in cutting grease.	**PLASTICS** Phosphoric Anhydride In the manufacture of hard, transparent resins.
POLISHING Phosphoric Acid Electropolishing of stainless steel.	**CATALYSTS** Pyrophosphoric Acid Preparation of catalysts for production of high octane gasoline.	**CHLORINATING** Phosphorus Oxychloride In the manufacture of sulfa drugs and atabrin.	**WASHING COMPOUNDS** Sodium Phosphates Softens water and improves washing effectiveness of soap.	**PULP-PAPER** Ammonium Phosphates Provides the most effective method of flame proofing.

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It Is Politicomics

Seldom, if ever, through the ages has the term, "politics," connoted what it really means. Politics, properly speaking, is the science and art of government. Politics, popularly speaking, is, as Plato defined it, "the strategy of party and the lust for spoils."

Political economics, originally the art of regulating politics for the promotion of the wealth of the commonwealth, has come now to mean economics at large, in spite of the popular habit of setting up a destinction between the political and the economic—meaning commercial—aspects of almost any matter.

Politics, as the so-called "science and art" of government, has moved more and more into the areas of economics—social and commercial—and still being in largest part "the strategy of party and the lust for spoils," it has become an entirely new, very popular science. Because there is no more appropriate designation, that "science" is here and now dubbed politicomics. It is an offshoot of economics whose fundamental law of supply and demand has to do wholly with votes.

In the term, "politicomics," the "comics" has all the weird, illogical, largely senseless connotations that attend the same syllables in their application to serialized newspaper cartoons and periodical picture books. These connotations pass all understanding.

History's greatest symposium in politicomics was opened last week with the convening of the Congress of the United States of America. Faced with the world's most important, most hazardous problems, and forced to deal with them, that symposium has already got deeply into the art and science of vote-getting—at whatever cost. Outstandingly typical is the tax program submitted by the President, bidding $40 apiece for some ten million votes and picking the pockets of the same voters by adding to the already exhaustive cost of living a higher tax on the producing and distributing functioning of business.

That idea, doubtless, will not reach statutory realization. But, the outcome cannot be expected to be much better for the economic commonweal. There is pertinent wisdom in the fact that the opening invocation of the chaplain of the senate was a plea for divine mercy, rather than guidance. He knew that the latter would be futile. Well might he have added the words of his most illustrious precursor:—" . . . for they know not what they do."

When the Federal body of lawgivers, economic probers and planners, scandal diggers, and vote-wanters gets round to the so-called "Marshall plan" for economic restabilization of the world, then will politicomics be in full swing. But, its characteristic of getting into inextricable messes and supermaning itself out of them will really get going when its masterly practitioners put their hands to the remedying of inflated values or deflated dollars or whatever it is that makes things cost twice what they should.

Politicomics is a popular science which lives on expediency and shifts its basic principles—or what pass for principles—to whatever popular wheeze currently may promise an accretion of votes. It is the science and art of government as a self-perpetuating job. The commonwealth must progress and profit in spite of it.

The Public May Tire

There is something irreconcilable in the prolonged bewailing of the plight of small business by election-facing office-holders, the repeated damning of big business as price-gougers, and the widely evident practicing of profiteering. It was not big business which seized upon the miseries of the recent storms of snow and ice as an opportunity to double the price of heating oils and treble that of tire chains for automobiles. The concerted refusal to make deliveries of furnace oil last week to fuelless homes in a large New York suburban section was not the act of big business but that of some thirty dealers in the section—small businessmen.

It is impossible to understand why businessmen, in common with the leaders of labor unions, expect a sympathetic sentiment on the part of the public which they apparently look upon as something to be put to all manner of inconvenience and slugged for every possible penny. It is but little easier to understand why office-holders so, at least, vociferously take up the plaints of the two groups who so plainly are themselves chiefly to blame for public apathy or even antipathy. The office-holder, or office-seeker, at least has the chance of getting a goodly number of unthinking voters to believe that all their unsatisfied needs, all their undesirable burdens are attributable to the greed of big business, which all of them are "agin'." Small business or downtrodden labor is merely sucker-bait.

But, small business and big labor are heading for a fall if they persist in their attitude of the public be damned—and drained. The unfortunate thing is that they will not fall alone: for, if it becomes necessary for the public, through government, to force them to treat it with proper consideration, all business and all labor will fare alike.

Arsenicals Not Done For

Despite the number and the efficacy of the new, organic chemical agents which recently have been brought to man's assistance in his increasingly heavy battling with insect pests, the providers of long-used arsenicals and other mineral insecticides do not expect to go out of business. They persist in the belief that new things go as new things come—and they are getting a chuckle out of the report from the United States Department of Agriculture that houseflies appear to be developing resistance to some of the newer killers. They expect other "bugs" to do likewise.

Somewhat the same experience has been reported with respect to the susceptibility of bacteria to penicillin and similar antibiotics. And the destructive service of a variety of new weapons against macro- and micro-organic enemies is here and there being appraised with some measure of doubt.

Those who do not adhere to a belief that few things new are good are not losing faith in the progress of insecticidal and germicidal practices. They know that "bugs" of both categories can develop immunities, just as they know that man becomes more susceptible to their attacks as he avoids exposure or relies more and more on other than inherent means of protection. So, they go along, trying to keep ahead of the "bugs" by discovering and applying still other new agents for their destruction.

Arsenicals doubtless will stick around more importantly in the insecticidal field, in spite of the new idea of growing cotton plants without leaves, than they will in the field of pathologic germicide where new micro-organic antibiotics probably will continuously be provided.

Washington Talks It Over

—*Continued from page 5*

arvense), a European weed common in Middle Western and Western States, has been suggested by the Department of Agriculture's Western Regional Research Laboratory. Ernest B. Kester, of the laboratory, finds that the oil derived from pennycress seed is similar in general characteristics and potential uses to rapeseed and mustard-seed oils.

This weed, also called fanweed, Frenchweed, dish mustard, and treaclewort, favors grasslands, gardens, and waste places, and is a serious nuisance in grain fields. It is a major constituent of grain screenings in some areas. Its seeds yield about a third of their weight in oil; the residual oilfree meal has a protein content higher than that of undecorticated cottonseed meal obtained by mechanical expression which contains about 28 percent of protein.

The potential value of pennycress oil naturally lies in its close resemblance to oils of rape and mustard seeds, which are valued ingredients of certain lubricants and are employed in machinery operating under heavy loads at high temperatures, such as marine and diesel engines. The oil is semidrying and is suggested as excellent as a machinery lubricant and for bearing surfaces subject to the flushing action of water.

Tin Can Order Delayed

The expected order from the Department of Commerce limiting the use of tin cans to save both tin and steel is still several weeks off, according to best estimates. It is thought now that the order will be issued sometime around the end of this month to be effective February 1.

There is a lot of speculation on just what the order will contain, and the reports of its contents are pure speculation because the department is still holding conferences almost daily with various industrial groups, trying to arrive at a decision that will be effective in saving materials, without proving too burdensome on those who will be hit by it. However, it is known definitely that the department intends to eliminate "frills" from the use of tin and steel and is directing its fire at tin cans for beer and lubricating oil.

The use of metal cans by the oil, beer, and petfood manufacturers has expanded greatly since the war. Last October these three industries alone consumed 50,000 tons of steel in the form of metal containers, against only 32,000 tons for all other nonfood can users. Paint producers are not believed to have anything to fear from the expected order. It is expected that they will be limited to ¼-pound plate (weight of tin to a box of plate) as against ½-pound plate now permitted. But the industry has been using ¼-pound plate ever since its return to tin cans, because ½-pound plate was unavailable.

Export Controls Changed

The new OIT export policy of granting licenses on the basis of lowest prices quoted by applicants has tied in with it another basic change in policy of major importance to exporters. OIT is going to use its export-control powers to direct the flow of goods from the United States to make sure that the areas in greatest need will get the lion's share of the export availables.

The result will be that American exporters who have traditionally been in the business of shipping to Latin America may find their operations sharply curtailed in favor of those doing business with Europe, whether they be newcomers or not. The old policy of granting export licenses on a historical basis is being abandoned in favor of price preference and directional flow of goods.

It is all a part of the overall policy of giving effect to the Marshall plan, which is yet to be approved by Congress. OIT officials regard the intended exercise of power to direct the flow of the goods to be the most important work of the agency.

Anti-Inflation Volunteers Shy

It isn't to be expected that the chemical industry will rush down to Washington with a handful of voluntary agreements it would like the government to approve under the Taft-anti-inflation law. Any agreements that might be entered into in this industry will be few in number and voluntary only in the sense that, if supplies must be allocated, the industry would rather do the job than leave it up to government.

The industry's hesitancy about entering into such arrangements is understandable. It has been taking it on the chin from Justice's Antitrust Division ever since the start of the war, and its members aren't anxious to get into any kind of a setup that would encourage the division to investigate them after the emergency, even though the agreements are not subject to antitrust prosecution during the emergency.

Realizing that criminal action can be brought against them should they move one foot out of bounds of the agreements, the industry's leaders would rather not run this risk.

Physics Study Scheduled

A new committee is being established within the Research and Development Board by Dr. Vannevar Bush, chairman, to study basic physical sciences as they pertain to research and development activities in the Military Establishment.

One of the functions of the committee will be to evaluate service programs relating to basic physical science research, and to make recommendations for allocation of projects among the services. It will consider problems in the fields of fluid dynamics, physics, chemistry, metallurgy, materials, and mathematics. One of its chief aims in the metallurgy and materials fields will be development of metals, alloys, and refractories of adequate strength to withstand extremely high temperatures. As it now stands, the army cannot go much farther in perfecting jet engines, guided missiles, and the application of atomic energy as a source of power because of present limits to the physical properties of materials at high temperature.

The committee is to be headed by Dr. W. V. Houston, president of Rice Institute, who was prominent in the war research program of the Office of Scientific Research and Development. There will also be two civilian members and two members each from the Departments of the Army, the Navy, and the Air Force.

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Heavy Chemicals

Buying interest was rather irregular in the industrial chemical market last week. Interruption caused by the holiday period was still apparent and this combined with the taking of inventories had a tendency to limit the extent of new business. In some major producing quarters it was stated that the recent snow storm prevented December from registering the greatest amount of shipments for any month in 1947. Pressure for soda ash deliveries did not appear quite as urgent during the period under review although there were no developments suggestive of any permanent easement of demand. Caustic soda supplies were exceedingly tight for all forms with no indication of improvement in sight at the present time. The abolishment of the zone system for selling calcium chloride and the adoption of a work's price means that consumers will pay the existing freight rates. Chlorine was in a little better supply in some quarters, but definitely short in others. There was no surplus of sulphuric acid reported here or in Baltimore, with evidence that in some instances producers were forced to purchase tankcar material to meet contract obligations.

Contracts for white powdered arsenic were priced higher, thereby establishing a strong background for all arsenic based chemicals. A stronger demand has developed for copper sulphate with sales unusually heavy for this time of year. The buying movement appeared to have been inspired by prospects of a higher metal market. One of the large sellers of anhydrous ammonia announced an advance in the export price for cylinders. The chlorates continued in active demand with potassium and sodium production heavily sold for the next month. Potassium perchlorate also commanded more attention. No easement could be noted in supplies of caustic potash or potassium carbonate, the former being in active demand for export and the latter in active request from the glass furnaces. An improvement in stocks of tungsten ore has permitted sellers of sodium tungstate to offer contracts covering the first quarter of 1948 at former selling levels. White granular sal ammoniac has continued to move freely to the manufacturers of dry-salt batteries and the general demand for this material is running flush with current production.

Paper production based on a percentage of six-day capacity was 101.1 percent for the week ending January 3, according to the American Pulp and Paper Association. This compares with 74.9 in the preceding week and 96.3 for the corresponding week in 1947.

Market Trends

Prices Advanced

Ammonia, anhydrous, for export in cylinders, 1½c. per lb.
Arsenic, white, ¾c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

General Chemicals

Last week.	Prev. week.	Last month.	Last year.
203.1	202.8	202.3	193.0

Acids

Last week.	Prev. week.	Last month.	Last year.
119.7	119.7	119.5	118.4

(For Current Prices see Page 9)

Ammonia, Anhydrous—One of the important sellers of anhydrous ammonia has announced an increase in the export price of 1½ cents a pound, in cylinders, effective January 1, 1948, making the price 17½ cents per pound f.a.s. New York.

Ammonia Liquor—Production in November was placed at 4,196,351 pounds by the Bureau of Mines. October output was 4,376,630 pounds and in November, 1946, production registered 4,874,500 pounds. Output for eleven months ending November 30, 1947, amounted to 46,992,304 pounds, against 45,555,100 pounds for the corresponding period in 1946. Sales in November were 3,825,349 pounds, compared with 3,831,876 pounds in the preceding month. Total sales for eleven months ending November 30, 1947, amounted to 43,354,710 pounds, against 42,594,400 pounds for the same time in 1946. Stocks on November 30 were 1,585,008 pounds, compared with 1,514,184 pounds on October 30 and 1,610,970 pounds on November 30, 1946.

Ammoniac, Sal — Dry battery manufacturers have continued to take an unusually large amount of white granular. Production has been barely able to meet this demand combined with the requirements of other consuming industries. The market situation is better than a year ago but has not attained a normal state to date.

Arsenic — Contracts for white powdered arsenic have been advanced ¼c. per pound to 6¼c. for carlots works. It is stated the insecticide industry has most of production under contract with the glass industry taking the balance. Demand has kept well above the supply level and the market has not receded from its former tight condition. Imported material is quoted about 3c. to 3¾c. above domestic contract prices ex-dock New York.

Bleaching Powder—Supply position has maintained the improvement noted during the preceding month and the market for domestic use shows a fair degree of balance. While some export trade is reported, the shortage of steel drum containers has placed a restriction on the amount of business that can be placed.

Calcium Chloride — Abolishment of the zone system has resulted in the buyer paying the freight. All discounts have been discontinued and terms are net 30 days. A transportation tax is added to the price if applicable. Flakes in paper bags, carlots are priced at $22.00 per ton and l.c.l. at $32.00 to $61.00 per ton basis depending upon quantity. Solid is quoted at $20.00 per ton in drums, carlots, ranging upward from $30.00 to $59.00 for l.c.l Liquor in tankcars is priced $9.00 per ton. All prices are f.o.b. the works, freight equalized with recognized competitive points. Producers are behind contract schedules but are making every effort to meet the essential requirements of regular consumers. There is no open market at the present time and may not be for some months ahead.

Chlorine—Market position has remained tight with stocks not so short as soda ash or caustic soda. Pressure was not so urgent for shipments of chlorine over the holiday period and producers have made some progress in evening off contract schedules. It is expected that demand will increase by the end of the month as there is no suggestion of any permanent easement in consuming interest at the present time.

Copper Sulphate — Buying interest is steadily increasing in this material for future agricultural use. Demand seemed to be inspired by the firm metal market prevailing and the possibilities of higher prices for the basic product. The stockpile has not been increased by producers although it has with consumers as most of the sulphate purchased is stored by buyers so there is no apparent shortage in sight. Shipments continue to be made to the west coast with sales dating as far ahead as April. This suggests a longer movement westward than was generally expected. Demand from Florida, while late, has increased substantially. Inquiry for industrial use has been sustained at a level averaging a little above normal. Aside from South and Latin American countries, the export movement has continued relatively slow. There are plenty of inquiries from Europe but actual sales have been limited, possibly on account of purchases that may develop from the Marshall Plan.

Nickel Sulphate—Recent purchases, mostly for plating requirements, have reduced available stocks and the market is not in as free supply as noted during the last quarter of 1947. In fact in some producing sources shipments are slightly behind schedule. However, reasonably prompt deliveries can be booked at current prices.

Potash Caustic—Stocks were not any freer last week. There was still some liquid in tankcars available but the dry forms remained in tight supply with demand active and production heavily under contract. The market's price structure continued firm with no new revisions reported.

Potassium Carbonate — Maintenance of heavy consuming demand, mostly from the glass industry, has prevented any easement in buying conditions. Stocks are short of requirements and the market showed the same tight supply position previously noted.

Potassium Chlorate—Buying interest has continued broad enough to prevent any easement from the tight supply situation and from present indications January is going to register another big month in sales. A sizable tonnage is now on the books with interest steadily increasing for February.

Potassium Perchlorate—Available stocks have been brought to a lower level, said to be the result of an improved demand not only from the fuse and flare industries but from other miscellaneous industrial

For Late Market Developments, See Page 4

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sources. The market position was tighter last week than noted a month ago.

Soda Ash—Supply situation tight with demand keeping far enough ahead of production to prevent any improvement in buying conditions. Consumers have shown the same disposition to increase commitments, although in some producing quarters it was stated that demand for shipments from the paper and pulp mills did appear quite as urgent as noted during the last quarter. Threatened labor difficulties at one of the major producing plants has been settled.

Soda Caustic—No indication of improvement could be noted in the supply situation. Current production is insufficient to meet requirements with consumers generally endeavoring to increase their commitments above last year's quotas. Output is now heavily under contract and the movement of both dry and liquid forms is confined to regular consumers.

Sodium Chlorate—Steadily increasing demand for industry and agriculture has kept the supply situation exceedingly tight. Shipments are somewhat behind schedule and production is heavily under contract for prompt shipment and well into February. It appears as though a sizable amount of material has been purchased and placed in storage for future weed-killing requirements.

Sodium Nitrite—Maintenance of steady production has permitted prompt shipments of this chemical for dyestuff and meat packing requirements. Inquiry has continued fairly active with small lots commanding the most attention.

Sodium Sulphide—Production has not been sufficient to level off demand for this material. Inquiry for home and export was reported active with stocks definitely short for nearby shipment and no nearby improvement in sight.

Sodium Tungstate—Recent arrivals of delayed shipments of tungsten ore have allowed suppliers of sodium tungstate to accept contracts covering the first quarter of 1948. Demand has increased and considerable business has been placed on the basis of $1.40 per pound, works. The market is reported firm at this level but without indication of change over the next three months.

Zinc Sulphate—Shipments at present are matching production with the exception of crystals which are somewhat short of requirements. The market position is firm with producers assimilating the constant increase in freight rates which have mounted around 70 percent in the past two years and no prospects that the advance will be halted. Under such conditions, there are possibilities that producers may name a flat works' price instead of allowing the freight. Many other chemical producers have been forced to switch a works' basis quotation.

Acids

Acetic—Output for 1947 is estimated at 380,000,000 pounds by a major producer which is 100,000,000 pounds more than was made in the preceding year. The major part of last year's production was channeled to the manufacturers of cellulose acetate and acetic anhydride with about 20 percent being used in solvent esters. Increased production of cellulose acetate this year is expected to keep acetic acid shipments under pressure and it looks as though a tight market will prevail in the months ahead although shortages may be less critical than in 1947. The markets price structure is firm with no significant price changes suggested at the present time.

Chromic—Steady demand from platers who hold contracts is readily absorbing current production and preventing any excess stocks that could be applied to export account. The tight position of sodium bichromate has kept acid production from expanding. While carlot shipments were available when the market situation was normal, the current shortage has made the carlot quotation nominal. The l.c.l. contract price is 22½c. to 23½c. per pound New York.

Hydrofluoric — Stocks have continued available for prompt shipment for domestic use but the scarcity of containers suitable for foreign shipment has limited export business regardless of an active inquiry. Prices are firm but without quotable change.

Hydrofluosilicic—Consuming requirements for this acid have been readily satisfied and producers are in a position to book additional business at current prices. Demand, while steady, has not been of an urgent character.

Oxalic—Shipments have continued behind schedule and the movement of stocks has been confined to regular consumers. There is no open market for this and at present and will not be until supply and demand are brought into better balance.

Sulphuric—Heavy industrial demand is absorbing production at present with the supply situation showing more of a tendency to tighten than relax. Reports from Baltimore indicate that demand is running slightly ahead of output and the situation is very similar in the local market regarding tankcars. Glass carboys continue scarce but deliveries appear to be going forward close to schedule.

Non-Ferrous Metals

Aluminum—According to a major producer, the aluminum industry's production in 1947 topped all previous peacetime records and all indications point toward a

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healthly growth in permament aluminum markets in 1948. The Bureau of Mines estimates that the actual production of primary aluminum last year was approximately 1,140,000,000 pounds, as compared with the record 819,260,000 pounds in 1946—an increase of more than 39 percent.

Copper—In discussing the industry's prospects a major producer stated that consumption of copper in the United States this year should be as large as the 1,350,000 short tons used in 1947, but there is little prospect of increasing production from the 1947 total of about 965,000 tons. It is estimated that the United States will have to import 350,000 to 400,000 tons of copper this year to meet home needs.

Lead—Active demand continues to feature the lead market with nearly all of the available supply for January shipment under contract and interest steadily increasing for February deliveries. The tight condition of supplies has made it necessary to allocate stocks in order to maintain an equitable distribution.

Silver—This market disclosed no definite trend during the past week. There was not enough pressure to force any perceptible fluctuations either up or down. The official closing quotation for silver bullion in New New York was 74⅝c. per ounce.

Silver Bullion Price Range

	Per ounce	
	New York	London
High	Mar. 6, 1947—86⅛c.	Jan. 2, 1947—55½d.
Low	June 20, 1947—50⅝c.	June 20, 1947—32d.

Tin—According to Washington advices, it is stated that the base price for tin purchased from Bolivian producers by the Reconstruction Finance Corporation during 1948-49 will be 90 cents per pound of payable tin in concentrates on board vessels at South American ports. The price is 14 cents a pound higher than in 1947. It is also stated that in a new agreement between the RFC and Bolivian tin producers, the price will vary directly with deviations in the value of grade A tin at New York. Great Britain gets about half of the Bolivian tin production, 40,000 tons, and the United States and Argentina the rest. The agreement covers total production, during the two-year period, of the Bolivian producers who participated in the 1946-47 contracts, with the exception of not more than 8,000 long tons, which may be used to fulfill outstanding commitments covered by the Argentine-Bolivian trade agreement.

Uranium — Press advices from Brussels (Aneta) state that the United States bought 3,650 tons of uranium ore from the Belgian Congo in 1946 and paid $5,332,000 for it. The second best customer for Congo uranium ore was Great Britain, which bought 2,600 tons for 1,060,000 pounds sterling (about $4,250,000), the report stated. Until 1946 the U. S. had been practically the only buyer of the ore from the Congo. Total uranium ore exports of the Congo in 1945 were 9,666 tons, compared to only 1,500 tons in 1939. The price in 1946 was 30 times as high as it was in 1944, it was stated.

Zinc—Increased buying interest has developed in the market for slab zinc since the first of the year. Demand from the manufacturers of brass and bronze products has continued to expand. It is stated that consumers have worked off a lot of their stocks, thereby bringing down inventories. Smelters' output declined moderately during the Summer months but recovered to some extent beginning October, although production at best was under the monthly average established during the first half of 1947. The undertone of the general market was firm at the close without uncovering any important price change.

Monochloroacetic Acid Production Described

OPD Washington Bureau

A continuous process for the manufacture of monochloroacetic acid from trichloroethylene is described in a technical report now on sale by the Office of Technical Services, Department of Commerce. The report is based on a study of the process at the I. G. Farbenindustrie plant at Hoechst.

The principal uses for monochloroacetic acid in Germany were in glycollic acid, glycollic acid derivatives, indigo, "Tylose" (a washing agent), and in a softener for synthetic rubber. The Hoechst plant produced monochloroacetic acid by the continuous catalytic interaction of trichloroethylene and water. In the United States direct batch chlorination of acetic acid is employed.

Mimeographed copies of the sixteen-page report (PB-78282; "The Manufacture of Monochloroacetic acid from trichloroethylene) sell for 50 cents. Orders should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order, payable to the Treasurer of the United States.

Carbide & Carbon Opens Houston, Tex., Sales Office

Carbide & Carbon Chemicals Corporation, New York, has opened a new sales office at 1527 Esperson building, Houston, Tex., to serve the chemical industry in that state. Paul J. Doyle jr. has been placed in charge of the new office.

Trade Briefs

Salt Dome Oil Corporation announces that the proposed offering of 100,000 shares of capital stock of the corporation has been indefinitely postponed.

Germain C. Crossmon, of the Bausch & Lomb Optical Company, demonstrated a new microscopy technique which provides a speedier, more accurate identification of a wide range of colorless, transparent substances before a recent meeting of the Zoological section of the American Association for the Advancement of Science.

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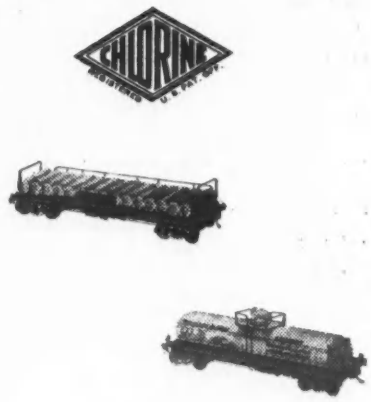

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Du Pont Shifts Staff Of Electrochemicals Dept.

E. I. du Pont de Nemours & Co., Wilmington, has appointed Donald O. Notman assistant general manager of its electrochemicals department, to succeed Samuel G. Baker, who has been made general manager. Dr. E. A. Harding has succeeded Mr. Notman as director of the department's technical division, and his place as director of production has been taken by Russel L. Hardy. Dr. N. C. Jones succeeds Mr. Hardy as manager of the Niagara Falls, N. Y., plant.

Mr. Notman joined the Roessler & Hasslacher Chemical Company as a chemical engineer in 1922 and joined the du Pont company when it acquired the Roessler & Hasslacher organization. He served in executive and managerial capacities in various du Pont plants, and was made director of the technical division of the electrochemicals department in 1945.

Dr. Harding joined the Roessler & Hasslacher organization in 1919, and also continued with it when it was acquired by du Pont. In 1925 he entered plant production work and seven years later became production superintendent of the Niagara Falls plant. He was appointed director of production for the electrochemicals department in 1935.

Mr. Hardy started at the Niagara Falls plant in 1929 as process supervisor. In 1936 he was made plant superintendent, and during the next two years directed the installation of sodium plants in England and in Baton Rouge, La. He directed the minerals separation division from 1939 to 1941, and was assistant director of production of the electrochemicals department until 1945, when he was named manager of the Niagara Falls plant.

Dr. Jones joined the organization in 1929 and, after twelve years at Niagara Falls, served as plant manager at Wyandotte, Mich., and Moundsville, W. Va. In 1945 he was made manager of the peroxygen products division in Wilmington, and last year became manager of the sodium products division.

Monsanto Names Staff Of Advertising Dept.

Monsanto Chemical Company has announced several appointments in its newly-created advertising department. Edmund G. Greene has been named advertising and sales promotion manager for the Merrimac division, Boston, and Edmund Kennedy has been appointed to a similar position for the plastics division, Springfield, Mass.

Braxton Pollard has been placed in charge of the section for foreign advertising, and William A. Lang has been transferred to the company's St. Louis headquarters to handle exhibits and product displays. Wilbur Grosse and William A. Rooney are in charge of direct mail and product publications, and will assist all divisions with product promotions.

N.Y. Textile Chemists To Meet January 23

The initial 1948 meeting of the New York section of the American Association of Textile Chemists and Colorists will be held at the New Yorker hotel on January 23. Speakers will be Richard E. Sumner, manager of the textile resin department of the Calco Chemical Division of American Cyanamid Company, Bound Brook, N. J., who will discuss "Chemical Finishes to Improve Use and Wear Qualities of Fabrics," and M. T. Fleming, sales and development engineer for Proctor & Schwartz, Inc., who will speak on "Textile Drying."

B. F. Goodrich Co. Names Zuiderhoek Plant Head

The B. F. Goodrich Company, Akron, Ohio, has appointed Philip H. Zuiderhoek factory manager of its plant at Tuscaloosa, Ala., to succeed Joseph C. Herbert, who has been assigned other duties with the company. Mr. Zuiderhoek joined the company in 1929, and has been production superintendent of its Miami, Fla., plant since 1945.

Owens-Illinois Buys Buffalo Glass Firm

Owens-Illinois Glass Company, Toledo, Ohio, has acquired Sharpe, Inc., glass cutting and polishing firm, Buffalo, N. Y. The firm will continue to operate as a subsidiary of Owens-Illinois, with no announced changes in personnel or policies. Alf H. Sharpe will continue as its president.

M.W. Hardy & Co. Opens N.Y. Office

M. W. Hardy & Co. has opened an office at 141 Broadway, New York. The company is the American affiliate of M. W. Hardy & Co., London dealer in fine and heavy chemicals, pharmaceuticals, dyestuffs, oils and allied materials.

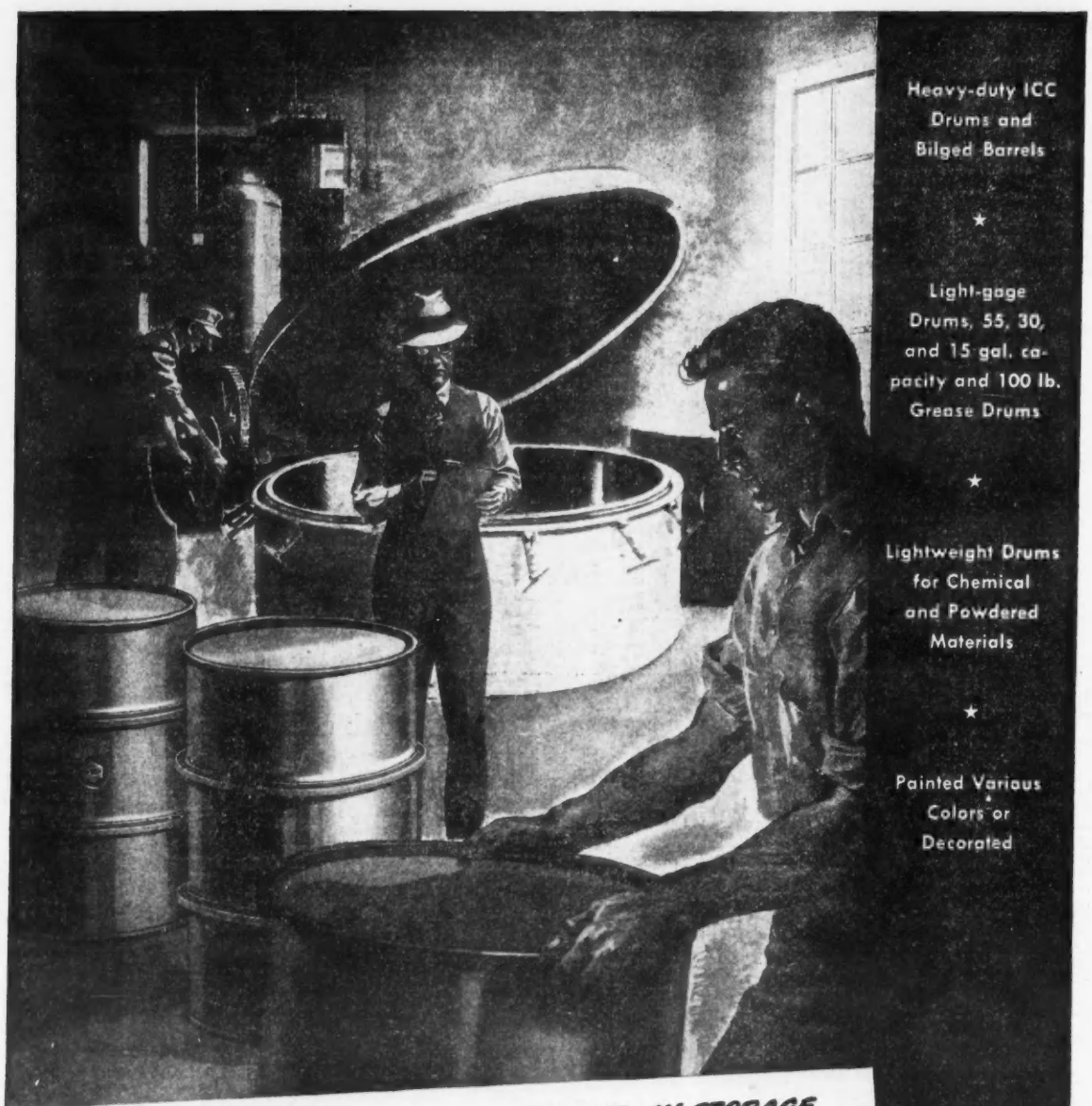
Trade Briefs

B. F. Goodrich Company has added a lightweight laboratory apron made from "Koroseal" to its line.

Kay-Ray Cleanser Company has been incorporated in Louisville, Ky., to manufacture cleansers and disinfectants.

Dexter Sulphite, Pulp & Paper Company has sold its Frontenac paper mill at Dexter to I. Lawrence Le Savoy, of New York City.

Columbia Chemicals Division of Pittsburgh Plate Glass Company has improved its Ohio River harbor facilities and Natrium, W. Va. Included in the project were construction of steel sheet pile mooring cylinders and pile mooring posts.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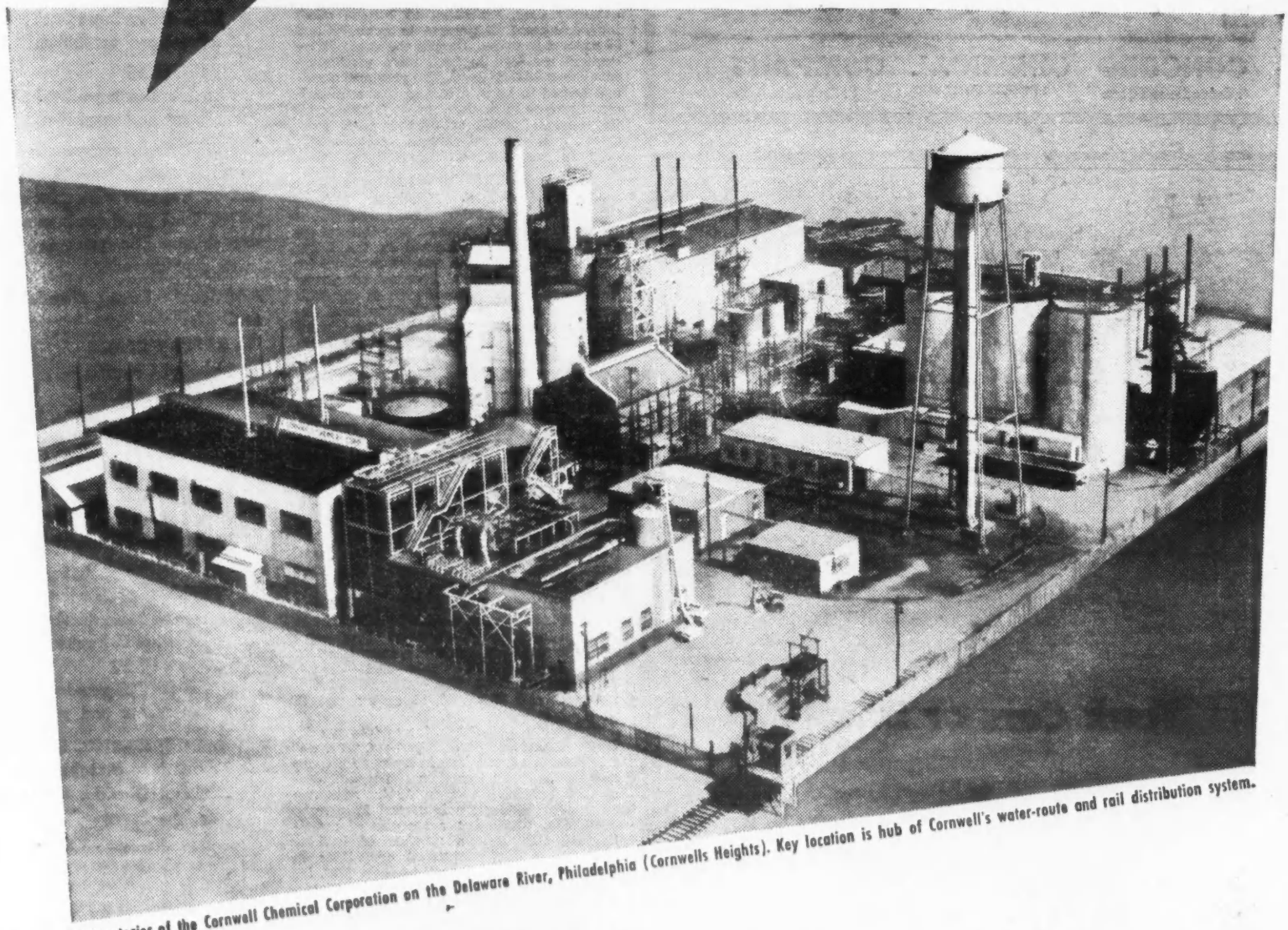

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Minerals Production

—Continued from page 3

Nonmetallic minerals (other than fuels) gained 22 percent in value of production. Activity in building, farming, and manufacturing stimulated all-time record outputs of cement, stone, fertilizer minerals, sulphur, and several ceramic materials.

Total value of metallic products in 1947 was $3,000,000,000, compared with $1,823,000,000 in 1946—an increase of 65 percent. The greatest percentage gains among the metals quantitatively in 1947 with respect to 1946 were for copper, aluminum, gold, silver, and vanadium. Iron and molybdenum increased more than one-fourth, and zinc and lead about one-seventh. The principal metals whose outputs declined were manganese, chromium, tungsten, and mercury.

Ferro-Alloy Metals

Despite a heavy dependence upon imports, the supply of all ferro-alloy raw materials was generally ample for industrial needs during the year except for a shortage of metallurgical chromite in the first quarter. Molybdenum and vanadium showed production gains in 1947 of 29 and 84 percent, respectively, over 1946 slumps and thereby recovered to levels approximating those of 1940. Domestic outputs of manganese, chromium, and tungsten ores declined 3, 63, and 42 percent, respectively; and, for the first two, contributed but a small fraction of the steel industry's requirements.

Copper, Zinc and Lead

Copper smelted from domestic ores in 1947 was about 860,000 short tons, a 43 percent gain over that of 1946. Yet the expansion attending the recovery was far from sufficient to fill large postwar needs for the metal. As the average annual price of copper increased nearly 50 percent in 1947, the value of output climbed 107 percent. Although the end of the premium price plan in June, 1947, forced a number of zinc mines to close, only in the central states was the impact sufficient to precipitate a regional drop in production. Smelter output of zinc from domestic ores, estimated at 516,000 short tons, increased 12 percent in quantity and 38 percent in value. Despite the unremitting demand for lead in 1947, mine production was below 1939-45 level. The resultant shortage helped to boost prices so that a 16-percent increase in smelter output from domestic ores, estimated at 340,000 short tons, meant a 101-percent gain in value in 1947 over the previous year.

Light Metals

Aluminum production is estimated to have totaled 570,000 short tons of primary metal in 1947, a 39 percent increase above 1946 operations. Strengthened demand in the latter part of the year could not be matched by augmented production because of power shortages. The 12-percent gain in domestic mined bauxite was insufficient to meet demand and thereby necessitated the highest rate of import in history. Primary magnesium metal output was about 12,400 short tons, overshadowed by a stock of some 75,000 tons of bomb-body and aircraft scrap.

Full-time operation of nonferrous-metal smelters in 1947 permitted increased recoveries of by-product arsenic, cadmium, bismuth, and minor metals. Mercury output dropped less than 10 percent in 1947 despite the weakness in the domestic market, caused by excess world supplies. Ilmenite shipments in 1947 exceeded 300,000 short tons and nearly equaled the 1945 record high, but rutile shipments were reduced substantially. Mine outputs of antimony and zircon were close to record levels.

Total value of mineral fuels in 1947 was $7,860,000,000 compared with $5,725,000,000 in 1946, an increase of 36 percent. Production of crude petroleum reached a record in 1947 estimated at 1,855,000 barrels—an increase of 7 percent over 1946. The estimated value at the well was $3,599,000,000 an average of $1.94 per barrel.

The production of beehive and oven coke in 1947, estimated at 72,800,000 net tons, was the highest ever attained in a peacetime year and was slightly less than the record output of 74,038,000 tons in 1944. Although oven coke production increased 23 percent over 1946, there was a scarcity of metallurgical coke and a number of beehive plants that had suspended operations in 1945 and 1946 were reactivated in 1947, increasing the output of beehive coke 44 percent over 1946. The total values of coke and coal chemical materials at producing plants in 1947 were estimated at $800,000,000 and $200,000,000, respectively, 64 and 27 percent above the 1946 figures.

Other Nonmetallic Minerals

Total value of nonmetallic minerals, other than fuels, produced in 1947 was $1,600,000,000—22 percent more than in 1946. The most outstanding increases were made by the building materials and in general their tonnages were at or near record levels. Demand for most other nonmetallics was also

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at a very high level. Among the commodities that attained record production in quantity as well as value in 1947 were:—Sulphur, potash, phosphate rock, boron, feldspar, kaolin, stone, cement, and vermiculite.

Before the war much potash was imported into the United States, but our capacity has been expanded greatly and we now produce virtually as much as we consume; in 1947, domestic output exceeded 1,000,000 short tons for the first time. Phosphate rock output has also been increased greatly in recent years to serve domestic and foreign commercial markets and provided a substantial tonnage for the maintenance of the agriculture of occupied countries; output in 1947 attained a record of over 9,000,000 long tons. At the end of the war most of the Government-owned nitrogen plants were closed, but as the world-wide need for nitrogen became apparent nearly all of them reactivated either by private operators or the Department of the Army. Consequently production of nitrogen in the United States incdeased to 1,300,000 short tons in 1947.

Chemical Raw Materials

Industrial demand for soda ash and other salt products has been so great that salt output in 1947 is estimated at about 15,000,000 short tons—close to the peak of 15,717,000 tons attained in 1944. Domestic demand for native sulphur also was very high in 1947 and foreign sales were the greatest in history; production reached a record total of 4,825,000 long tons. Output of pyrites increased moderately to about 825,000 long tons. Production of barite totaled about 720,000 short tons. United States provides most of the world's boron minerals; in 1947 production in this country was estimated at 460,000 short tons—a new record. Shipments of fluorspar in 1947 established a peacetime record approximating 330,000 short tons. Substantial tonnages of lithium minerals were consumed during the war but output in 1947 was at a low level. However, the peacetime markets for lithium compounds are expanding and output was greater than in 1946. Owing to the severe shortage of soda ash, output from natural deposits increased substantially in 1947. Similarly, production of natural sodium sulphate rose.

Other Minerals

The 1,000,000 pounds of sheet mica produced in 1947 was much below the wartime level, largely because of the industry's difficulty in competing with the relatively low-cost and more fully prepared imported material. On the other hand, domestic production of scrap mica for roofing, etc. (52,000 short tons) was near the record high. The steel, glass, and other industries that use high-temperature furnaces were very active in 1947, and thus the demand for refractories such as silica brick, clay fire brick, and dead-burned magnesite increased. Sales of feldspar to the ceremic industry increased in 1947 and are estimated to have reached a record of over 580,000 long tons. Although both domestic and Canadian production of asbestos increased in 1947, demand far exceeded supply. Graphite output was about the same as in 1946.

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Mol. Wgt.	329.18
Ferrous Salts	trace
Sulphates	0.009%
Chlorides	0.020%
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Insolubles	trace

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Current Prices

—Continued from page 32

Yellow, hansa, bbls., same basis as chrome	lb.	1.60 -	—
Primrose, bbls., same basis	lb.	1.90 -	—
Iron oxide, natural, bgs., c.l., works	lb.	.01½-	02¾
l.c.l., works	lb.	.02¾-	03¾
French type, bgs., c.l.	lb.	.04 -	—
l.c.l.	lb.	.04½-	—
Peruvian type, bgs., c.l.	ton.	27.00 -	32.00
synth., bgs., c.l., works	lb.	.08¾-	—
l.c.l., works	lb.	.08¾-	—
Mercury oxide, bbls., 1,000 lbs.	lb.	1.36 -	—
smaller lots	lb.	1.95 -	—
Ocher, American, golden, bgs., works	lb.	.01½-	02¾
Zinc, bbls., same basis as chrome	lb.	.20 -	—
Yellow dock root, bls.	lb.	.25 -	.27
Yellow xanthorrhiza (see Xanthorrhiza)			
Yerba santa leaves, bls.	lb.	.45 -	.50
Yohimbine hydrochloride, vis.	oz.	3.25 -	4.00

Z

Zeolite, bgs., 1,000 lbs., works	lb.	.25 -	—
smaller lots, works	lb.	.30 -	—
Zinc acetate, tech., bbls., dms	lb.	.20 -	—
NF, dms.	lb.	.39 -	.40
Arsenite, bgs., c.l., frt. alld. E. of Rockies	lb.	No stocks	
l.c.l., same basis	lb.	No stocks	
Carbonate, tech., rubber makers', bbls., works	lb.	.10¾-	.11¾
USP, precip., powd., bbls	lb.	.35 -	—
dms.	lb.	.40 -	—
kgs.	lb.	.37 -	—
Chloride, tech., fused, dms., c.l., works, 100 lbs.		6.25 -	—
l.c.l., works	100 lbs.	6.55 -	—
gran., bbls., c.l., works	100 lbs.	7.00 -	—
l.c.l., works	100 lbs.	7.40 -	—
solution, 50°, dms., c.l., works	lb.	.0655-	—
l.c.l., works	lb.	.0655-	—
tanks, works	lb.	.0650-	—
USP, gran., dms.	lb.	.30 -	.3
jars	lb.	.35 -	.36
Chromate (see Yellow, zinc).			
Cyanide, kgs., works	lb.	.34 -	.35
Diethyldithiocarbamate, dms., works	lb.	1.15 -	—
Dust, bbls., c.l., dlvd.	lb.	.1250-	.1266
l.c.l., dlvd	lb.	.1275-	.1300
Fluoride, bbls., works	lb.	.18 -	.19
Hydrosulphite, dms., works	lb.	.16 -	—
Iodide, NF, jars	lb.	4.65 -	—
Laurate, bbls.	lb.	.45 -	.46
Linoleate, solid, 9% Zn, bbls.	lb.	.56 -	—
Metal slabs	lb.	.1100-	—
E. St. Louis	lb.	.10½-	—
Naphthenate, liquid, 8% Zn, dms.	lb.	.19½-	—
10% Zn, dms.	lb.	.24 -	—
solid, 14% Zn, dms.	lb.	.31¾-	—
Oxide, pigment, dom., acicular, bgs., c.l., ship't point, frt. alld.	lb.	.10 -	—
l.c.l., works	lb.	.10¼-	—
American process, com'l lead-free, bgs., c.l., ship't point, frt. alld.	lb.	.10 -	—
l.c.l., works	lb.	.10¼-	—
leaded, 5% bgs., c.l., ship't point, frt. alld.	lb.	.10 -	—
l.c.l., works	lb.	.10¼-	—
35% bgs., c.l., ship't point, frt. alld.	lb.	.11¾-	—
l.c.l., works	lb.	.12 -	—
50% bgs., c.l., ship't point, frt. alld.	lb.	.12¾-	—
l.c.l., works	lb.	.12¾-	—
French process, com'l, lead-free, bgs., c.l., ship't point, frt. alld.	lb.	.12¼-	—
l.c.l., works	lb.	.12½-	—
green, seal, bgs., c.l., ship't point, frt. alld.	lb.	.11¾-	—
l.c.l., works	lb.	.12 -	—
red seal, bgs., c.l., ship't point, frt. alld.	lb.	.11¼-	—
l.c.l., works	lb.	.11½-	—
white seal, bgs., c.l., ship't point, frt. alld.	lb.	.12¼-	—
l.c.l., works	lb.	.12½-	—
USP, ctns., c.l., ship't point, frt. alld.	lb.	.13¼-	—
l.c.l. same basis	lb.	.13½-	—

Zinc oxide Pac. coast prices ¾c. higher; bbls., prices ¼c. higher than bgs.

Resinate, fused, 9% Zn, powd., dms.	lb.	19¼-	—
Silicofluoride, bbls., works	lb.	.11 -	—
Stearate, ctns., 2,000 lbs.	lb.	.51 -	—
smaller lots	lb.	.52 -	—
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld.	100 lbs.	4.15 -	—
l.c.l., same basis	100 lbs.	4.90 -	—
flake, 25½% Zn., bgs., c.l., same			
l.c.l., same basis	100 lbs.	5.55 -	—
powd., 36% Zn, bgs., c.l., same basis.	100 lbs.	6.75 -	—
l.c.l., same basis	100 lbs.	7.50 -	—
Zinc sulphate in bbls., 40c higher			
Sulphide, pure, bgs., c.l., dlvd.	lb.	.10½-	—
l.c.l., works	lb.	.10¾-	—
Barium pigment, bgs., c.l., dlvd.	lb.	.07½-	—
l.c.l. works	lb.	.07¾-	—
Calcium pigment, bgs., c.l., dlvd.	lb.	.07½-	—
l.c.l., works	lb.	.07¾-	—
Luminescent pigment, frt. alld.	lb.	1.00 -	3.00
Magnesium pigment, bgs., c.l., dlvd.	lb.	.07½-	—
l.c.l., dlvd.	lb.	.07¾-	—
Zinc sulphide and pigment, Pac. coast prices ¾c. higher; bbl. prices ¼c. higher than bgs.			
Sulphocarbolate, NF, gran., bbls., dms.	lb.	.28 -	.29
powd., bbls.	lb.	.31 -	.32
Yellow (see yellow, zinc)			
Zinc-ammonium chloride, bbls., c.l., works	100 lbs.	7.15 -	—
l.c.l., works	100 lbs.	7.55 -	—
Zinc-cadmium sulphide, fluorescent, cns., frt. alld.	lb.	2.00 -	2.80
Zinc-formaldehyde sulphoxalate, basic, dms., works, frt. alld.	lb.	.17 -	—
normal, dms., works, frt. alld.	lb.	.35 -	—
Zinc-iron oxide pigment, bgs., c.l. dlvd.	lb.	.08¼-	—
Pac. coast	lb.	.09¼-	—
l.c.l., dlvd. E. of Rockies	lb.	.09 -	—
Pac. coast	lb.	.09¾-	—
Zircon (see Zirconium silicate).			
Zirconium acetate, solution, bbls., works	lb.	.25½-	—
Hydride, cns., works	lb.	7.00 -	—
Oxide, 88%, 92%, grd., bbls. or bgs., any quantity, works	lb.	.25 -	—
98½-99%, white, grd., bbls. or bgs., works	lb.	1.50 -	—
lump, electric-fused, bgs., c.l., works	lb.	.44 -	—
5 tons, works	lb.	.44½-	—
2,000 lbs. and less, works	lb.	.45 -	.48
milled, electric-fused, bgs., c.l., works	lb.	.59 -	—
5 tons, works	lb.	.59½-	—
2,000 lbs. and less, works	lb.	.60 -	.63
Oxychloride, cryst., ctns., 5 tons, works	lb.	.29½-	—
Silicate, granular, bgs., c.l., works,	lb.	.03¾-	—
5 tons, works	lb.	.04 -	—
2,000 lbs. and less, works	lb.	.04¼-	.04¾
Zirconium silicate, milled, bgs., c.l., works	lb.	.04¾-	—
5 tons, works	lb.	.05¼-	—
2,000 lbs., works	lb.	.05¾-	.06¾
refined, bgs., c.l., works	lb.	.11 -	—
5 tons, works	lb.	.11½-	—
2,000 lbs. and less, works	lb.	.12 -	.16
Sulphate, basic, cake, ctns., c.l., works	lb.	.37½-	—
5 tons, works	lb.	.38 -	—
2,000 lbs. and less, works	lb.	.38½-	.39

Synthetic Resins

The customary monthly listing of prices for synthetic resins and other branded paint materials was printed in the Jan. 5 issue of OPD.

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Agricultural Chemicals

Shipping conditions for potash have shown substantial improvement as a result of favorable cooperation of the railroads in supplying all the boxcars necessary for moving material from works. Liquidation of warehouse stocks has continued at a lively rate and it is now expected that a normal movement will be restored by the end of the month. No increase in stocks of ammonium nitrate or sulphate could be noted. One prominent supplier of the latter has advanced the selling price without changing the general market spread of quotations. Production of phosphate rock is not sufficient to meet the requirements of acidulators in full and it is stated that contract accounts will take care of production for some months ahead. Superphosphate stocks have continued tight in the local area. No new developments in sodium nitrate were uncovered and prices showed the same wide differential between domestic and imported prices.

Prices of dried blood and tankage have been lifted further above the trading level at which the fertilizer industry can profitably operate. Feeders have forced price advances in both markets. No additional change was registered in fish meal. Last year's production has about been purchased and it was difficult to locate a seller either here or in Baltimore. Bone meal output is heavily under contract for the next two months and there is no pressure to sell in any quarter. There is not much hoof meal available at present and the market has assumed a rather nominal price condition. The movement of castor pomace has been confined entirely to contract accounts. There is not enough cyanamide available to meet the consuming demand. A feature in the insecticide market was an advance in the price of white arsenic. This has established a strong background for all the arsenic based insecticides although to date no new prices have been announced in calcium arsenate or lead arsenate.

Reports from Washington assert that the Department of Commerce is not anticipating any reduction in United States exports to western Europe this year. In a supplementary report of requirements under the European Recovery Program, the department states that nitrogen production can be increased 100,000 tons by 1950 or 1951.

Nitrogenates

Ammonium Sulphate — Production from coke-ovens was lower in November, according to the Bureau of Mines. November output amounted to 143,995,156 pounds, compared with 147,482,118 pounds in October. November production in 1946 was 118,585,600 pounds. Output for eleven months ending November 30 amounted to 1,492,163,525 pounds, against 1,173,271,600 pounds for the corresponding period in 1946. Sales in November were placed at 139,753,538 pounds, compared with 138,306,678 pounds in October. Stocks at the close of November were 64,481,700 pounds, against 62,207,967 pounds on October 31 and 70,777,780 pounds November 30, 1946. Current prices range from $35.00 to $40.00 per ton bulk works.

Bone Meal — Market position firm with feeding demand active for both raw and steamed grades. Production for this month mostly under contract which accounts for the limited extent of offerings in the open market.

Dried Blood—Prices have been advanced closer to the Chicago parity under buying for feeding purposes. Offerings were not large with sellers not eager to accept business below the western price level. Occasional carlots were sold at $10.50 per unit of ammonia against sales in the West at $10.75.

Fish Meal—Supply conditions continued exceedingly tight with the market almost bare of menhaden meal. Inquiry for feeding use remained active with prices firm at the recent advance.

Hoof Meal — Market quiet with stocks limited and sellers were not inclined to force business with the fertilizer trade at the present time. The market is quoted nominally at $8.50 per unit of ammonia.

Sodium Nitrate — Continued to find a steady outlet through contract channels. Imported nitrate is arriving regularly and domestic material is moving against backlog orders. No new price changes were reported.

Tankage—Priced higher both here and in the West under an active demand from the feed trade. Stocks have remained limited for prompt shipment with sales reported at $11.00 per unit of ammonia here and in Chicago.

Market Trends

Prices Advanced

Dried blood, 75c. per unit of ammonia.
Tankage, 50c. per unit of ammonia.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
72.5	72.5	72.5	72.3

(*For Current Prices see Page 9*)

Phosphates

Phosphate Rock—No easement in demand from acidulators could be noted since the turn of the year. Producers are being pressed for shipments and suppliers have not been able to accumulate stocks above ground. Buying conditions have continued tight for all grades.

According to foreign advices, production of phosphate rock in French Morocco in the first 6 months of 1947 averaged 222,800 metric tons monthly. The monthly average in 1946 was 190,300 tons, and in the prewar period, 142,000 tons.

Superphosphate—Overall supply situation has tightened since the turn of the year. According to trade reports, any surplus in the Southeast has been liquidated and demand has now exceeded production. Stocks in the local area are as short as they were during the last quarter of 1947 with triple exceedingly scarce at the present time.

Potashes

Favorable cooperation of railroads has allowed producers to materially reduce their warehouse stocks and it looks as though the shipping situation will be restored to normal by the close of the month. Demand from fertilizer mixers has continued heavy and in excess of production. The market position is tight and firm.

Insecticides

According to the Department of Commerce hexaethyl tetraphosphate and tetraethyl pyrophosphate have both been used to some extent, during 1947, with considerable success. They are particularly effective against mites and aphids and will undoubtedly alleviate the stringent situation in nicotine sulphate. Another phosphate diethyl-p-nitrophenyl-monothiophosphate is reported to be the most effective yet tested against various insect pests. Limited quantities of this material may be available during the 1948 season.

Nicotine Sulphate — Stocks exceedingly scarce at the present time here and abroad. In an effort to relieve the world shortage the Department of Agriculture is undertaking a long-time project to recover nicotine from nicotiana rustica, a native wild plant. Exports of nicotine sulphate in September amounted to 25,000 pounds, high for any month since April. New Zealand was the destination for 13,000 pounds. Exports for the period extending from January 1 through September, 1947, were 202,000 pounds of which Canada received 98,000 pounds. The total for the same period in 1946 was 122,000 pounds.

Paradichlorobenzene—While it is expected that the supply situation will improve later in the year, by increased production, the present market is definitely tight. September exports were 206,000 pounds, a drop of 100,000 pounds from the amount supplied in August. Total exports for the first nine months for 1947 were 1,841,000 pounds, of which 1,120,000 pounds went to Canada. The total for the corresponding period in 1946 was 828,000 pounds.

Sulphur and Pyrites

Holiday influences have not materially affected the movement of sulphur. The industrial demand is averaging high and fully up to the expectations of producers. Bureau of Mines places October shipments from mines at 2,920,426 long tons, compared with 3,613,150 tons in the preceding month. Apparent sales in October were 2,942,914 long tons, compared with 3,541,019 tons in September. The movement of pyrites has been confined chiefly to contract accounts. No price changes were revealed.

Exports of crude sulphur for the period extending from January 1 to September 30 were 975,470 long tons, according to the Department of Commerce. Exports for the corresponding period in 1946 were 840,530 long tons.

For Late Market Developments, See Page 4

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W 2½, Flaked	.125
V ½, Flaked	.15
V 1, Flaked	.14
V 1½ and 2, Flaked	.13
V 2½ and 3, Flaked	.12
MH 1, Flaked	.14
MH 1½ and 2, Flaked	.13
MH 2½ and 3, Flaked	.12
MH 2½ and 3, Solid	.115
MH 9, Solid	.10
RH, Solid	.12
P-10°, Viscous	.12
P-25°, Viscous	.12
AX, Viscous	.075
CX, Solid	.07
EX Light, Solid (Color 12-16)	.065
EX, Dark, Solid (Color 17-22)	.06
FX, Solid	.07
FLOOR TILE GRADES	
T 3, Solid	.1075
T 3-3, Solid	.1125
T 5, Solid	.1025
T 5-2, Solid	.105
T 5-3, Solid	.11
T 6, Solid	.0975
T 15, Solid	.065
Resin S, Solid	.13

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Coaltar Chemicals

Steel operations last week were set at 97.9 percent of ingot capacity, a new post-war peak and the highest rate attained since the week of May 22, 1944. One of the things threatening to hamper steel processing was the shortage of scrap iron. Stocks were reported to be disturbingly low.

Phthalic anhydride started on its way upward in price with the beginning of the new year. One major producer set prices at 2½ cents higher than the prevailing prices in the latter months of 1947. Another major producer announced a price rise of 2 cents per pound effective February 1. These rises are caused by the increased labor costs and freight rates which were recently effected, and more immediately by the increased price of naphthalene which was pushed up by the advancing coaltar prices.

A confused price picture currently prevailed in the markets for toluol and xylol, with the coaltar source material maintaining the old level of prices while petroleum source material advanced at the year end by several cents per gallon. Accordingly a price spread of 7 cents per gallon existed on toluol and 5 cents per gallon on xylol in tankcar quantities. An upward adjustment of coaltar source material was imminent, but the pattern was developing very slowly.

Some producers who were on the lower level of prices quoted in OPD on betaoxynaphthoic acid, Tobias acid, metanitroparatoluidine, and paranitroanilin advanced views last week to the higher level of prices recently quoted. Orthocresol of the pure 30 degree type advanced some 6½ cents per pound.

Most producers of such basic coaltar chemicals as naphthalene, cresol, cresylic acid, creosote oil, and phenol have advanced prices, but at least one large producer was still studying the situation prior to making an upward adjustment. The composite price schedules of those who have advanced prices are discussed under the specific items below.

Naphthalene continued critical and short in supply with most large consumers still short on contracts to cover estimated requirements this year. Meanwhile, consumers of phthalic anhydride were likewise finding considerable difficulty in contracting for their requirements and a definite shortage was anticipated despite increased production facilities due to operate early in the year. The naphthalene shortage was basic and the chief reason for the phthalic shortage.

Steel output, according to the American Iron and Steel Institute, last week amounted to 1,708,600 net tons of ingots and castings in line with the operating rate of 97.9 percent of capacity. This compares with 1,686,900 tons the previous week, 1,710,000 tons a month ago, and 1,580,900 tons one year ago.

Market Trends

Prices Advanced

Acid, Betaoxynaphthoic, 10c. per lb.
Tobias, 2c. per lb.
Metanitroparatoluidine, 6c. per lb.
Orthocresol, 30°, 6½c. per lb.
Paranitroanilin, 2c. per lb.
Paraphenylenediamine, 5c. per lb.
Phenol, 90-92%, ¼c. per lb.
82-84%, ¾c. per lb.

Prices Reduced

None

Comparative Price Indexes

(1926=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
143.7	140.3	138.9	131.7

(For Current Prices see Page 9)

Basic Products

Benzol—The price structure of benzol continued in a range of 19 to 21 cents per gallon last week, although an upward adjustment at most points was expected to develop during the first quarter. Supplies were in reasonable balance with demand with industrial pure and nitration grades being under the heaviest pressure. Considerable quantities of the latter were moving into direct chemical processing, with an expanded usage in this direction looked for this year.

The Bureau of Mines reported November production at 1,030,437 gallons of motor grade, 3,633,267 gallons of one degree nitration grade, 8,558,258 gallons of two degree industrial pure grade, and 205,181 gallons of all other grades. This brought the monthly total from coke-oven operators to 13,427,143 gallons. Coke-oven operators, it was said, during the first eleven months of 1947 produced 145,148,706 gallons of benzol, as compared with 125,808,000 gallons during the same period of 1946.

Coaltar—The increased cost of coaltar resulting from the currently high levels of fuel oil prices was beginning to exert an effect all along the line on basic coaltar products and their derivatives. While the scarcity of fuel oil was causing steel operators to burn more coaltar, a conscientious effort was being made to release as much as possible to the coaltar chemicals industry. Production of crude coaltar by coke-oven operators during November amounted to 62,286,000 gallons, off 2.8 percent from the previous month. This brings the eleven month total for 1947 to 671,215,412 gallons, as compared with 545,235,800 gallons for the same period of 1946, according to the Bureau of Mines.

Creosote Oil—Output of creosote oil continued high at the levels of recent months. Coke oven production during November amounted to 3,233,168 gallons. Prices by virtually all producers were currently set at 21½ cents per gallon, f.o.b., tankcars, and similar upward adjustments were contemplated by certain other producers who had not as yet reached a definite decision.

Cresol—Most producers of this item had established new price levels at 16¼ to 17 cents per pound for the synthetic resin grades in tankcar quantities. Carlot drum quantities were quoted at 17 to 17¼ cents and less than carlot drum quantities at 17½ to 17¾ cents. To date, not all producers had come fully in line with these schedules but action was imminent. Supplies continued inadequate to meet current needs, and demand remained heavy. The U.S.P. grades of material in tankcars were quoted by the large tar distillers in the range of 16½ to 17 cents per pound.

Cresylic Acid—The weighted average of domestic production of this item was quoted last week at $1.42 per gallon in tankcars, $1.48 in drum carlots, and $1.51 in drum shipments of less than carlots. These prices were based at the factory. Supplies meanwhile were far short of demand and had to be thinly spread over the domestic market. Imports of foreign material continued low, and what little came in was being marketed by dealers ranging in prices from the level of domestic to roughly twice that figure. Imported last week were some 190 drums from Britain.

Naphthalene—Supplies of naphthalene were still quite short and most consumers were entering the new year with contracts quite inadequate to meet their estimated needs for the year. Prices, meanwhile were advanced by the producers representing the bulk of the total naphthalene production, by virtue of the increased price of coaltar forced upward by the cost of fuel oil. One major producer had as yet not advanced prices, but an upward pattern of price adjustment was expected. Producers who had advanced prices presented a composite schedule of 5¼ to 5¾ cents per pound in tankcars for the 74 degree crude material, and 5½ to 6 cents on the same basis for the 78 degree material. Packaged in barrels and quoted in carlot quantities 78 degree material was listed at 6½ cents per pound, with l.c.l. quantities ranging from 6¾ to 7 cents. Refined naphthalene prices on the industrial level were quoted in the range of 8¾ to 9¼ cents per pound in tankcars. Demand for refined material was on the upswing and supplies were beginning to tighten. Demand for the crude grades was heavy, especially from phthalic anhydride producers who were operating against a backlog of orders.

Phenol—Natural phenols were in strong demand with supplies generally short. Most major producers had adjusted prices upward to give a new range of quotations, but not all producers had as yet advanced

Coke By-Products

Estimates of by-product cokeoven operations in the week ended January 3 indicate the following output of by-products from that source:—

Ammonia liquid NH_3	lbs.	1,190,540
Ammonia sulphate	lbs.	30,828,720
Benzol	gals.	3,884,920
Coaltar	gals.	14,411,800
Creosote oil	gals.	801,948
Naphthalene, crude	lbs.	1,904,864
Phenol	lbs.	225,576
Toluol	gals.	776,984
Xylol	gals.	175,448

For Late Market Developments, See Page 4

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prices, although advances were imminent. The price structure of the major producers who had advanced prices was represented by quotations ranging from 12c. to 12½c. per pound on the 90 to 92 percent grade in tankcars, while carlot drum quantities were quoted at 13c. to 13½c. and less carlots at 13¾c. to 14½c. The 82 to 84 percent grade was listed uniformly at 12¾c. for tankcars, 13¾c. for carlots and 14½c. for less than carlots. U.S.P. material by the same producers ranged from 12½c. to 12¾c. in carlots and 13¼c. to 13½c. in less than carlots, with a uniform tankcar price of 11½c. per pound.

Pitch, Coaltar—The market for this material was characterized by recent price advances to the new range of $31.00 per ton for carload lots and $34.00 per ton for less than carload lots, packaged in non-returnable drums.

Pyridine—A price structure was developing on pyridine last week which indicated the range by most producers would fall within 69c. to 69½c. per pound in returnable drums, but some producers were likely to go appreciably higher. November production stood at 12,127 gallons, according to the Bureau of Mines.

Solvent Naphtha—The price structure on this item presented a confused picture last week in view of the recent rather large price rises on petroleum source toluol and xylol. Some producers were inclined to advance prices part of the way between the current spread of quotations. Others were inclined to sit tight and await developments throughout the coaltar industry to see what the pattern would be. Demand for solvent naphtha was on the increase, and likely to continue.

Toluol—Toluol continued tight from all sources under continued heavy demand that seemed to be general. In view of a lowered supply prospect under the demands on the petroleum industry for aviation gasoline of high aromaticity, the situation was likely to remain tight for some months. The price picture at the present looked very confused as a result of the recent increase in the price of petroleum source material to 30c. per gallon occasioned by fuel oil price advances, freight rate advances, and increased labor costs. Coaltar producers were as yet undecided as to the level at which their production should be set, and the current price spread of toluol accordingly stood at 23c. to 30c. per gallon in tankcars. Some coaltar producers were inclined to advance prices upward somewhat, but for the most part, were waiting to see how the pattern in the coaltar industry would develop.

According to the Bureau of Mines, coke oven production of toluol for November stood at 1,920,995 gallons of the nitration grade bringing the total for the first eleven months of last year to 18,875,732 gallons. Production of other grades was relatively low, although the 2 degree industrial pure production over the same eleven month period amounted to some 4,900,814 gallons.

Xylol—A sustained heavy demand for this material continued with supplies inclined to diminish in the face of heavy demands on crudes for aviation gasoline of high aromatic content. Prices continued to range from 25c. per gallon for coaltar source material to 30c. per gallon for petroleum source material in tankcar quantities. How long this sort of price spread could endure was a matter of conjecture. Coaltar production of xylol was necessarily limited and the greater amount of material consumed would have to be xylol at the higher level. An upward revision by most coaltar producers was expected soon. According to the Bureau of Mines, coke oven producers during November had a production of 559,263 gallons of xylol, bringing their total for the first eleven months of last year to 6,520,573 gallons.

Intermediates

Anilin—The market situation on anilin remained essentially unchanged last week with prices holding firm. Supplies were not plentiful, but neither were they critical, and producers were shipping material as fast as it could be produced on equipment which was hard pressed for use in the production of other items also.

Betanaphthol—Firm prices prevailed on this material for the time being, but supplies were constantly running behind demand and shipments were being made against a backlog of orders. Producers were hampered by the lack of sufficient naphthalene, and naphthalene requirements of most producers were currently far from being covered by contract.

Dianisidin—The market for this material remained tight and was expected to continue so into the new year. Prices were still unchanged, and no immediate adjustment appeared to be in prospect.

Dinitrobenzene—A shortage of this material was reported and the cause seemed to lie in the direction of insufficient production due to equipment bottlenecks.

Maleic Anhydride—Most producers re-

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mained in an oversold position on this material which remained critical in a market of firm prices. New production was due to become effective early in the year, against which maleic anhydride has been contracted for equivalent to the first quarter's output. Pressure of demand was expected to continue to keep the market tight well into the year, and additional demand was likely to exceed the additional tonnage which will be available this year over last year.

Metanitroparatoluidine — This material was selling, according to reports, in a tight market at firm prices. One producer whose prices were low during the past year advanced prices in line with the current schedules of other producers.

Phthalic Anhydride—Effective at the beginning of the first quarter of 1948 one producer of phthalic anhydride advanced prices to 20 cents per pound in carlots and 21 cents in less than carlots, freight equalized. Reasons for the advance by this producer as well as subsequent advances in prospect by other producers was the increased cost of naphthalene which was forced upward by increasing coaltar prices. Added to this was the advancing freight rates and labor costs, which further necessitated the rise. Another major producer of phthalic anhydride announced price advances effective February 1 to levels of 19½ cents per pound in carlots and 20½ cents in less than carlots. Other producers meanwhile were holding prices at the old level for the duration of current contract commitments, but it was expected that they would eventually go along with price advances placed in the neighborhood of those already announced.

Supplies, meanwhile were quite short and contractors were unable to cover for their expected requirements. Despite considerably increased production facilities about to come into effect, there appeared to be no great excess of potential production this year over last by virtue of the limited supplies of naphthalene. Production from orthoxylene was expected to increase somewhat but not enough to be a considerable factor in the alleviation of the current shortage, much of which is due simply to a sustained abnormal demand.

German Rayon Production Instruction Film in U.S.

A technical film depicting the large-scale conversion of straw to viscose rayon in the most modern of German rayon plants, the Phrix plant at Wittenberge, will be shown at the Department of Commerce auditorium, Washington, D. C., tomorrow at 11 a.m.

Copies of the film, entitled, "Birth of a Rayon Staple Fiber Plant," (PB-67563) are available for purchase from the Textile Research Institute, 10 East Fortieth Street, New York, N. Y. The film is one of the few technical films brought to this country as a result of OTS investigation of German technology.

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Textile and Leather Chemicals

Buying interest in tanning materials increased last week, and there was a fair volume of business placed on certain tanning materials. Increased buying interest in view of the current inventory picture was expected to develop early in the first quarter. An upswing in tanning operations was reported in recent weeks and was said to be continuing into the new year. Such continued activity indicated an end to the period of quiet trading which was characteristic of this season of the year. The recent hand to mouth buying of tanning materials in the American market had little or no effect on the firm position of prices at the primary market level because of sustained European demand and shipments in comparatively heavy volume. Supplies of most tanning materials were reported to be adequate to meet demand, and wattle bark which had been somewhat short showed continued improvement.

Last week saw the New York price on potato starch quoted from levels of the previous week upward fractionally, while the government diversion program designed to alleviate the current shortage remained bogged down for undetermined reasons. High grade tapioca flour remained very scarce at firm prices, while medium grade material was in fair supply at prices fractionally lower from the previous week. Prices of corn dextrin, starch, and sugar were raised fractionally per 100 pounds last week owing to the increase of 20 percent in freight rates. Demand for these materials continued active against former contracts.

Production of rayon and other synthetic fabrics reached new high levels during 1947. On the basis of three quarters of the year the 1947 production of fabrics of synthetic and silk fibers was estimated at 2,000,000,000 yards, compared with 1,700,000,000 yards in 1946. Demand exceeded the supply during the year to the extent that mills allotted fabrics at the beginning of each quarter's operations. The pattern of production as to types of fabrics changed somewhat during the year, principally in the increase of the production of the more wanted all-filament rayon fabrics and all spun rayons, instead of the miscellaneous blends of cotton and rayon or filament and spun rayon that were common during the war period.

Market Trends

Prices Advanced

Corn dextrin, 4c. per 100 lbs.
starch, 4c. per 100 lbs.
sugar, 6c. per 100 lbs.

Prices Reduced

Tapioca flour, med., ¼c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
396.3	396.3	396.3	288.6

(For Current Prices see Page 9)

Chemicals

Bichromates — Consuming inquiry for bichromates and for export continued active. Export quotas for sodium bichromate and chromate for the fourth quarter were reported 2,622 tons and potash bichromate and chromate 501 tons, which were larger than actual shipments made during earlier quarters. Production of bichromates was sold well ahead and the supply situation remained tight.

Soda, Hydrosulphite — Conditions continued on a steady basis. Inquiry was reported fairly active for requirements during the first quarter. Deliveries against contracts were in good request.

Sulphonated Oils—Business was reported quiet. Prices were steady for sulphonated castor, and were firmer for tallow, owing to the higher cost of this material.

Sizing Materials

Albumen, (Egg)—Trading continued restricted by the limited available supplies. Inquiry was reported moderate for small lots which were quoted at $3 to $3.50 per pound, depending upon quantity and seller. The technical grade also was in light supply and prices were firm ranging from $1.25 to $1.40 per pound, according to quantity and quality. Production of liquid egg during November totaled 4,740,000 pounds, compared with 10,976,000 pounds in November last year, according to the Bureau of Agricultural Economics. Practically all the decrease in production occurred in the production of liquid egg for drying. Egg drying operations are now on a prewar basis. Dried egg production during November totaled 330,000 pounds, compared with 2,585,000 pounds in November last year. Production consisted of 159,000 pounds of whole egg, 91,000 pounds of dried albumen and 80,000 pounds of dried yolk.

Albumin, Blood—While demand was light and spotty, the market was reported steady. Prices were without change and were well held for albumin and dried soluble blood.

Corn Sugar—Prices were raised 4c. per 100 pounds, as a result of the 20 percent increase in freight rates. Tanners chipped was advanced to $6.93 per 100 pounds, paper bags, carlots, and $6.98 in barrels.

Dextrin, Corn—Market remained strong under an active demand. Output was sold ahead and processors were reported about two months behind delivery schedules. Prices were increased 4c. per 100 pounds for all grades, following the boost of 20 percent in freight rates. British gum was raised to $8.59 per 100 pounds, paper bags, carlots, New York; canary, $8.33; dark, $8.43; white, $8.18, same basis. Less carlots were 15c. higher.

Egg Yolk—Production of egg yolk totaled 80,000 pounds during November, compared with 6,000 pounds for the same month last year. Trading was reported quiet, last week. Supplies were not heavy, but were adequate to cover the light demand. Prices were unchanged and steady at $1.20 to $1.25 per pound, as to quantity.

Sago Flour—Business was light and mainly for prompt delivery. Supplies were moderate on the spot and ranged from 9c. to 9½c. per pound, as to quantity and seller.

Starch, Corn—With production sold up and a firm grain market, prices of cornstarch remained strong. Consuming inquiry was more active for nearby delivery. Deliveries against current contracts continued in good request. Higher freight rates resulted in an increase of 4c. per 100 pounds. Pearl was advanced to $7.06 per 100 pounds paper bags, carlots, New York and powdered to $7.17. Less carlots were 15c. higher.

Starch, Potato—Prices on potato starch at New York ranged from 11.8c. per pound upward to levels fractionally higher. Last week still saw the government diversion program in Maine, which was supposed to have been in operation well in advance of this date, still being held up. Meanwhile operations were proceeding at a quite low level in view of the critical shortage of potatoes and use of intermittent power. Idaho producers were operating against a backlog of orders, and the hope was expressed that by the middle of February some starch would again be available from these sources.

Tapioca Flour—High grade material was quite scarce and only very limited amounts could be had at prices in the range of 11c. to 11½c. per pound. Medium grade material could be had in New York at 9¼c. to 9¾c. per pound. Supplies were fair under reasonable demand. Prices on the medium grade were off ¼c. as compared with the previous week.

Tanning Materials

Chestnut Extract—A stable price structure prevailed in this market last week and the market situation was one of continued light trading with supplies adequate to meet all calls.

Divi-Divi—Business in this item continued spotty, with trading light and characteristic of the market in recent weeks. Prices held firm at their current levels.

Mangrove Bark—Offerings were reported to be light and trading was quiet, with ample supplies on hand to take care of current demands.

Myrobalans—Limited consuming inquiry was reported for this item, while prices were steady and unchanged, especially at primary markets. J-1 material was scarce and quoted in the range of $54 to $55 per ton, while J-2 material was more readily available and could be had at $45 to $46 per ton.

Quebracho Extract—Imported last week were 25,704 bags of this material arriving in New York from Buenos Aires. Supplies were reported adequate to meet the current demand, and prices were unchanged.

Tara Powder—Prime consumption of this material was still limited to the pharmaceutical industry, by virtue of its high price structure which tended to prevent its use for tanning operations.

Valonia—Beards and cups were quoted at unchanged prices in a market where trading was quiet.

Wattle—Some 6,278 bags of wattle extract arrived at Baltimore last week. Arriving at New York were some 11,543 bags of bark. Also at the same port there arrived 2,553 bags of extract. The previously short supply of this material began to ease some weeks ago, though prices remained steady.

For Late Market Developments, See Page 4

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Drugs and Fine Chemicals

New York City surmounted the blizzard of 1947 in surprising fashion only to be hit by an ice storm that on New Years' night, disorganizing rail and road transportation into the city from points west. The storm extended west from the Hudson to the Delaware river, knocking out electrical power lines and crippling in one way or another chemical and other industries within those boundaries. Even late last week some plants lacked power, and in the suburbs adjacent to New York, many homes were without either light or heat. However, roads were reopened by road gangs that removed hundreds of trees fallen across the highways. Restoration of fallen power and telephone lines is proceeding very slowly.

Price trend in the drug and fine chemical market was almost entirely upward. The lone exception came in synthetic camphor, prices for which were reduced moderately in the case of technical but sharply in that of USP products. Raw material price changes since August, when the last previous change was made in camphor prices, have been upward—57½c. per gallon for turpentine then, against 64c. now. Though not confirmed, it may be that the situation in natural camphor production on the island of Taiwan (Formosa) may at last be affecting the American market for synthetic. Also among price declines was refined glycerin as quoted by refiners who had been obtaining a 5c. premium over the minimum quotations on refined glycerin as quoted by one large refiner. Those obtaining the 5c. premium reduced quotations to a point where the range in refiners' minimum prices became three-quarter cent per pound—which meant that the lowest prices prevailing since the last advance remained unchanged.

Among the more prominent price advances last week were those on acetoacetanilide and acetophenetidin, amyl alcohol when made from fusel oil, and natural fermentation butyl acetate and alcohol made at points other than Illinois and Indiana.

Higher freight rates brought an advance in quotations on corn syrup and it is not at all impossible that other materials will cost buyers more when contracts provide that a rise in freight rates is for the account of buyers. Diethyl carbonate was another article to start the new year at a higher price.

Acetoacetanilide — Effective January 1, prices were raised substantially to establish a market on the basis of 67½c. per pound in reflection of the present cost to produce the material.

Acetophenetidin—All producers have now advanced their quotations and the 10c. higher market has become basis at $1.10 per pound. The range that covers small lots was set at $1.12 to $1.20. This change took care of a rise in the cost of producing this item and the market began the year in very firm position in the absence of unsettling competition. The above prices affect spot deliveries at once. Contract buyers, February 1.

Acid, Acetylsalicylic—Trade turned reasonably active with the turn of the year and a substantial amount of business was booked in covering the requirements of numerous manufacturing consumers during the first three months of 1948. Undertones were very firm.

Acid, Cacodylic—Prices for this material were confirmed as being unchanged on January 1. Nor was there reason to look forward to an early shift in the well stabilized position prevailing for some time past. Demand was strictly routine.

Acid, Camphoric—Reaffirmation of unchanged prices has been obtained on both the natural and synthetic acid and the new year opened under definitely routine demand and need so far as buyers were concerned.

Acid, Mandelic—Slightly more trading was reported in some quarters supplying this material but on the whole the market was routine along quiet lines at prices distinctly firm on the basis of the last advance.

Acid, Nicotinic—Steady prices were noted last week, being in line with the recent position of the material and subject to a well maintained consuming request that was in line with normal takings.

Acid, Salicylic—Stocks unsold at the beginning of the new year still indicated that no surplus supply was in hand. Nor was any likely soon to develop since output moves promptly into consumption and the indications were that such a relationship would continue for some time to come. Prices were very firm.

Acid, Tartaric—Demand was rather routine during the first full week of new year trading but prices seemed to be generally steady. Outlook for consumers' requirements suggested an excellent movement during the first quarter.

Market Trends

Prices Advanced

Acetoacetanilide, 10½c. per lb.
Acetophenetidin, 10c. per lb.
Ammonium acetate, purified, 7c. per lb.
Amyl acetate, ex fusel oil, 2c. per lb.
Butyl acetate, production other than Ill. and Ind., 1½c. per lb.
Butyl alcohol, production other than Ill. and Ind., 1½c. per lb.
Corn syrup, 6c. per 100 lbs.
Diethyl carbonate, 6½c. per lb.
Diethylstilbestrol, $5 per kilo.
Gold chloride, acid brown, $2 per oz.
acid yellow, $1.25 per oz.
Iron sulphate, USP, crystals, 3½c. per lb.
Propyl alcohol, normal, 1c. per lb.
Sodium cacodylate, 50c. per lb.
Tricresyl phosphate, petroleum, 1½c. per lb.
Zinc sulphocarbolate, 2c. per lb.

Prices Reduced

Camphor, synthetic, technical, 3c. per lb.
USP, 6c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
256.3	256.3	255.2	247.7

(For Current Prices see Page 9)

Agar—The Japanese government's official Board of Trade has reported that the total available for export from November 19, 1947, until May, 1948, will be 750,000 pounds—being all from current stocks. The balance of the Japanese supply will be reserved for home requirements in Japan.

The following table shows quantities available for shipment and prices on contracts involving amounts between 10,000 and 50,000 pounds. Contracts involving 50,000 pounds or more are reported finalized at 5 percent less than the prices listed.

	Pounds		Price
	Nov.-Jan.	Feb.-Mar.	per lb.
Kobe No. 1 (1947)	100,000	200,000	$1.85
No. 1 (1946)	100,000	.....	1.75
No. 2 (1947)	.....	100,000	1.65
No. 2 (1946)	150,000	.....	1.55
Yokohama No. 1 (1947)	50,000	50,000	1.75

Alcohol—The following data on alcohol were released January 5 by the alcohol tax unit, Bureau of Internal Revenue, Treasury Department, on supply, production, withdrawals, and stocks of ethyl, completely denatured and specially denatured alcohol during the month of November, 1947, in comparison with November, 1946:—

Production

	Proof gallons	
	1947	1946
Ethyl	28,471,642	18,686,608
*Completely denatured	5,801,922	5,671,193
*Specially denatured	12,818,013	13,985,477

Withdrawals

	Wine gallons	
	1947	1946
†Ethyl, tax paid	4,659,000	5,201,922
tax free	34,830,563	41,439,513
*Completely denatured	5,857,673	5,632,821
*Specially denatured	13,168,770	14,112,414

Stocks

	Gallons	
	1947	1946
†Ethyl	22,787,262	42,391,645
*Completely denatured	100,395	83,060
*Specially denatured	842,687	2,522,744

* Wine gallons, † Proof gallons.

According to the Alcohol Tax Unit, materials used in industrial alcohol plants in the Novembers of 1947 and 1946 were as follows:—

	Pounds	
	1947	1946
Corn and corn products	2,358,985	18,041,625
Rye and rye products	.....	.....
Malt and malt products	297,320	4,315,256
Wheat and wheat products	.....	25,932
Sorghum grain and sorghum grain products	2,931,680	2,086,228
Other grain	.....	1,190,318
Total grain	5,547,985	25,659,359
Potatoes and potato products	.....	56,243,402
Cassava and cassava products	.....	16,021
Other materials	74,000	75,938
	Wine gallons	
	1947	1946
Molasses	19,729,101	3,307,653
Ethyl sulphate	9,166,917	9,387,801
Sulphite liquors	19,510,940	17,985,700
Potato products	.....	.....
Wood sugar liquors	.....	.....
Other materials	835,359	686,124
	Proof gallons	
	1947	1946
Products used in redistillation	3,783,481	6,261,566

Ammonia Acetate—Purified material was reported at the higher price level of 39c. to 40c. per pound. The reagent grade was up to 58c. to 60c. Cost of production appeared to be behind the higher market.

Amyl Acetate—The market for this article made from fusel oil has been advanced in line with the higher cost of the very scarce material. Quotations were established at 29c. per pound in tanks; drums, carlots, 30½c.; less than carlots, 31½c. The recent rise in prices on material ex pentane was well supported throughout the past week by the very steady movement into consumption.

Atropine—Somewhat more active move-

For Late Market Developments, See Page 4

ALKALOIDS

GLUCOSIDES—DRUG EXTRACTIVES

1917

ACONITINE
AGARICIN
ARECOLINE
ASPIDOSPERMINE
ATROPINE
BERBERINE
CHRYSAROBIN
COLCHICINE
DIGITALIN
EPHEDRINE
ESERINE
HOMATROPINE
HYDRASTINE
HYOSCINE
HYOSCYAMINE
LOBELINE
OUABAIN
PHYSOSTIGMINE
PICROTOXIN
PILOCARPINE
SANGUINARINE
SANTONINE
SCOPOLAMINE
SPARTEINE
STROPHANTHIN
YOHIMBINE

1947

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●

Semicarbazide Hydrochloride, Technical and Purified

Props: White crystals of high purity, low in ash, moisture, hydrazine hydrochloride, and insoluble material. Freely soluble in water; insoluble in absolute alcohol and ether.

Uses: Reagent for isolation of ketones and aldehydes. Useful in the preparation of certain pure sex hormones.

●

Potassium Thiocyanate, N.F.

Props: White hygroscopic prismatic crystals; 99% minimum purity; water solubility: 177 gms/100 gms at 0°C.; 217 gms/100 grams at 20°C.; solution neutral to litmus.

Uses: In compounding organic pharmaceutical proprietary products.

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ment was reported but the gain was moderate enough to hold the market to a steady but unchanged price position on both forms of the material.

Barium Chloride—Some talk of a higher market on the N. F. item had been noted toward the end of last year but sellers reaffirmed the market prices last week, declaring that undertones were very firm.

Borax—Official price schedules lacked change with the turn of the year. However, railroads and water carriers were granted an additional interim increase of 10 percent in freight rates by the Interstate Commerce Commission last week. The increase, which amounts to 20 percent over the rates in effect prior to last October, when an emergency 10 percent rise was granted, will remain effective until June 30. The increase is part of the 30 percent increase requested by the carriers in petitions previously made and upon which hearings were recently completed.

Butyl Acetate, Alcohol—Prices for normal fermentation material produced at points other than Illinois and Indiana have been established on the basis of 32c. per pound in tanks; drums, carlots, 33½c.; less than carlots, 34½c. It was a rise of 1½c. per pound, which was in contrast with the 4½c. per pound rise made in the previous week by producers in Illinois and Indiana, a rise that set tanks at 35c.; tankwagons, 35½c.; drums, carlots, 36½c.; less than carlots, 37½c.

Butyl Lactate—Though demand varied little, it was steady in support of the higher schedule of prices established in the previous trading period. Supply was moderate in most quarters.

Butyl Stearate—The higher prices set in the previous week were without adverse effect on the approach of buyers to the market. The call was up to its normal level during the first full week of the new year and the future outlook was favorable.

Camphor—Producers of synthetic material instituted two reductions in prices last week. Prices on technical were down 3c. per pound while those on the USP products went down 6c. per pound. The new quotations were established on the following basis: Technical, 2,000 pounds or more, 42c. per pound; 1,500 pounds, 44½c.; smaller lots, 45c. to 55c.; USP, granular and powder, 2,000 pound lots, 66c. per pound; 1,000 pound lots, 67c.; smaller lots, 68c.; tablets, 2,000 pound lots, 83c.; 1,000 pound lots, 84c.; smaller lots, 85c.

Castor Oil—Operators in castor beans reported crushers as showing little interest in the import market at the present time. The dull market was quoted $175 per long ton, f.o.b. Brazilian ports and buyers' views in this market were somewhere around $173. But little actual trading was done during the first week of the year.

Arrivals of beans thus far in 1948 total 67,146 bags, or 10,071,900 pounds, which compares with the total of 29,413 bags, or 4,411,950 pounds arrived in the corresponding length of time in 1947.

The oil market began the new year with a fair amount of activity and supply seemed sufficient to carry business forward in excellent fashion during the first quarter at least.

Cocoa Butter—The market in the past had rarely begun a new year with supplies so small and the general situation so tight. Nor was there anything this year to suggest that the prices on cocoa beans would reverse their trend to an extent sufficient to lower the prices on butter and, possibly, to increase the available supply.

Cod Liver Oil — The new fishing season should get well underway in Norwegian waters in the not distant future and it is believed that the Norwegians and the British trawler fleets will be at least as large as a year ago.

Diethyl Carbonate—Because of rise in the cost to manufacture this material, producers have been compelled to advance prices 6½c. per pound, establishing a new quotation at 46½c. per pound.

Diethylstilbestrol—Offerings of this material came on the market higher on the basis of $330 per kilo, according to a prominent factor in the material. Interest in the article was said to be increasing steadily as the medical profession learns its value and method of use.

Emetine — In the January-March period, 1947, according to advices from Brazil, exports of this article totaled 56 kilos valued at 1,557,000 cruzeiros. In dollar exchange, a cruzeiro is valued at 5.46c. Of the total, the United States took 9 kilos valued at 236,000 cruzeiros.

Ephedrine—Seasonal activity was excellent and movement accounted well for the current volume of the production of synthetic material. Prices were exceptionally firm.

Epsom Salt — Manufacturing consumers covered their needs for USP material in satisfactory shape and on the basis of higher prices established for the article at the turn of the year.

Ethyl Acetate—As yet, leading suppliers of this article have made no change in their official quotations, but the market was understood to be exceptionally firm in price because of strength that governs production cost and activity that stems from consumer needs.

Ethyl Lactate—The higher market took up a very firm position at the turn of the year and although demand differed little from normal volume, it was steady and persistent at all times last week.

Ethyleneglycol—Demand from industrial users was active and well up to the high volume of requirements run up throughout 1947. At the beginning of the year, it was a market of price-strength and, in some measure, of supply-weakness—although production actually runs to a very large tonnage.

Fishliver Oils—Prices were firm in all respects and the tendency in those prevailing on potencies of the higher orders remained upward under the influence of a not abundant supply.

Los Angeles, Jan. 8.—Supplies of sharkliver oil were scarce. Little market activity was noted. Vitamin A oils, including the 1894 conversion factor in all potencies, was as follows:—8,000 to 15,000 unit oil, 18c. per million units; 15,000 to 30,000, 25c.; 30,000 to 60,000, 27c.; 60,000 to 100,000 30c.; 100,000 to 150,000, 32c. to 35c.; 150,000 to 200,000, 37c.; concentrates, 500,000, 42c., and a million units, 44c. to 45c.

Formaldehyde—No surface move in the direction of higher prices has yet appeared despite the fact that in some instances producers are paying 3c. per gallon more on their basic raw material. Formaldehyde was very firm in price and under good demand.

Glycerin—Price ranges quoted by refiners of glycerin were narrowed last week; the range of 5¾c. per pound that had existed since the last advance in quotations was reduced to ¾c. per pound. This change made the tankcar price on USP material 39¼c. to 40c. per pound according to refiner. Other varieties of refiners' products were affected similarly.

It thus appears that the recent reductions in the prices prevailing on soapers' oils and tallow has become of some influence on the general price position. Soapers who recover

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glycerin for sale to refiners have a lower cost upon which to work and that fact, together with the failure of the upward trend in prices to continue, has led to the marketing of more liberal quantities of crude at prices, however, that have not been changed during the past fortnight so far as soaplye glycerin was concerned. However, tallow prices turned upward last week and that may alter the situation in crude glycerin.

Excellent demand for the products of refiners was reported last week and conditions appeared to forecast continuation of the good movement at least during the balance of the first quarter of the new year.

Gold Chloride — The market has been moved up some, acid brown becoming $22 to $22.25 per ounce and acid yellow, $20 to $20.25 as a reflection of a higher production cost prevailing at present.

Iron Sulphate — Sales were made consistently on the basis of a market higher and firmer at 9½c. to 10c. per pound. Trade was routine.

Isopropyl Alcohol—Prices on normal material have been advanced 1c. to the following positions:—Tanks, 11c. per pound; drums, carlots, 12½c.; less carlots, 13c.

Menthol—The market seemed slightly less steady than it had been toward the end of last year. Prices were supported less well and a tendency to shade quotations was not lacking locally during the past week. Reports from China stated that trade in menthol was dull in Shanghai on account of the inability of merchants to meet foreign demand, according to a report to the U. S. government.

Mercurials—Demand was not exceptional last week. It was moderate in size and not in excess of routine requirements of most buyers. Prices remained steady in line with stability in prices asked for raw material.

Methanol — Prices minimum with producers had a spread of 3c. per gallon. Sellers at both ends of the range 24c. to 27c., tanks, zone 1, reported a firm approach to a normally active market which gave every promise of being stimulated to excellent sales volume at least throughout the first quarter of the new year.

Milk Powder—Deliveries under the U. S. foreign relief program totaled 3,617,075 pounds in November, according to the Production and Marketing Administration of the Department of Agriculture. Deliveries to cash paying foreign countries in that month totaled 11,000,000 pounds. Deliveries to government agencies amounted to 1,906,025 pounds. Prices underwent no new developments last week. Reports indicated that the market remained firm; that production was increasing slowly; and that demand was on a more conservative basis than it had been. Inventories were said to be light.

Potassium Glycerophosphate — Prices ranked $2.05 to $2.20 per pound according to seller and the market was entirely routine throughout the past week.

Quinine—During the first of 1947, Ecuador shipped 22,745 kilos, compared with 16,724 kilos in the corresponding period of 1946, an

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increase of 36 percent. However, none of this came to the United States, and of the total, 46 percent was exported to France, where the product was said to be used to flavor wines.

According to the American Consulate at Batavia, Java, the number of estates cultivating cinchona and take over by the Dutch at the end of September, 1947, totaled twenty-eight. These estates comprised a combined area of 6,521 hectares and, prewar, produced 539 metric tons in terms of quinine equivalent. Of this prewar total, 12 percent was processed in factories that are now in running order. The remainder was produced in plants which can be repaired readily. It is estimated that the area planted to cinchona on the estates thus far recovered by the Dutch constitute 49 percent of Java's present area devoted to cinchona cultivation.

Saccharin—Moving well and in volume expected by the principal supplier of the material. Prices were very steady and were expected to reveal substantial stability at minimum levels at least throughout the first quarter of the new year.

Sodium Cacodylate—Sellers at minimum quotations have raised their prices to the basis of $9 per pound. The range, as to seller, continued to be very wide—touching $12 at the outside.

Sodium Glycerophosphate—The range on N. F. crystals or flake was $1.65 to $1.80 per pound, according to seller and quantity; powder, $1.70 to $1.85. Solution of 75 percent sort range $1 to $1.10, also on the above basis.

Theobromine — Brazilian exports in the first three months of 1947 totaled 24 metric tons, valued at 4,316,000 cruzeiros, whose dollar exchange value is $5.46c. The United States took eight metric tons of the total, their value being 1,443,000 cruzeiros. In the corresponding months of 1946, such exports amounted to 22 metric tons, most of it going to the United States.

Tricresyl Phosphate—Prices higher. Coal-tar, tanks, 36½c.; drums, carlots, 37½c.; less carlots, 38c.; petroleum, tanks, 37½c.; drums, carlots, 38½c.; less carlots, 39c.

Drug Manufacturing Company has been incorporated in Louisville, Ky., by J. J. Murphy, Edward I. and Mary J. Fleetwood, and Robert B. Laufer.

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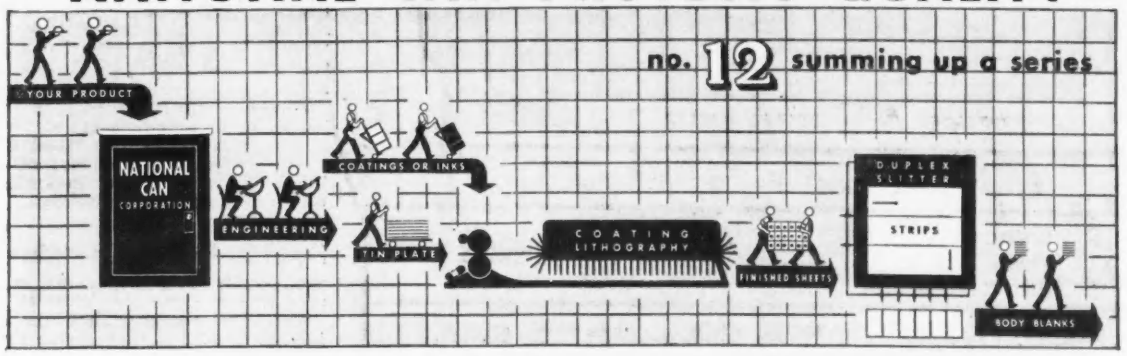

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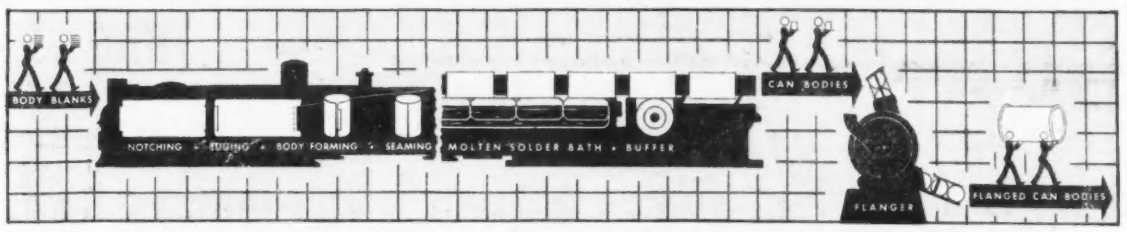

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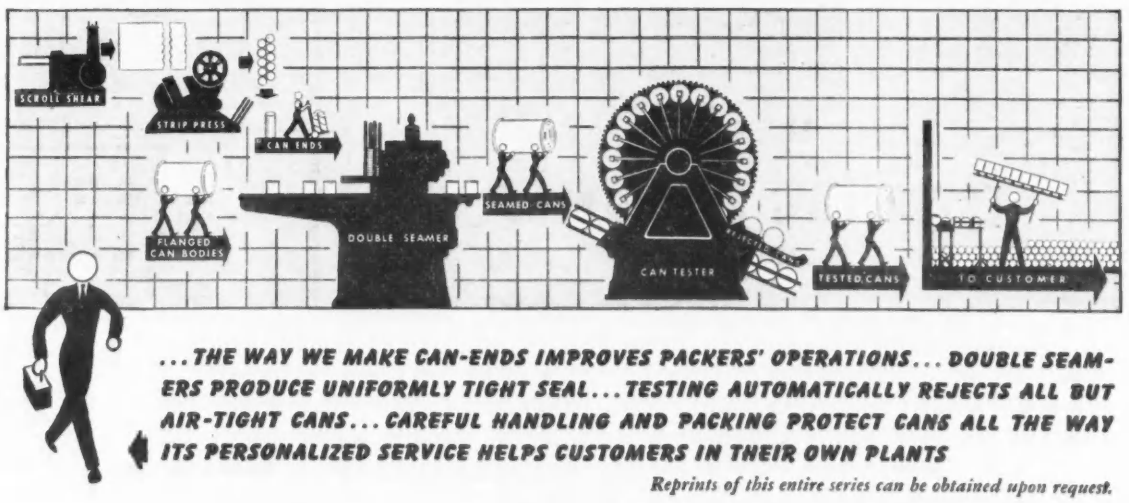

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Compressed Gas Makers To Meet January 19-20

The Compressed Gas Manufacturers Association will hold its thirty-fifth annual meeting at the Waldorf-Astoria hotel, New York, on January 19 and 20.

The morning of the opening day will be devoted to meetings of the following committees: — acetylene, aerosol, refrigerent gases, revisions, pressure regulator and transportation. Luncheon speaker will be Dr. Karl K. Darrow, of Bell Telephone Laboratories, whose topic will be "Cosmic Rays."

The afternoon of January 19 will be devoted to amendment of the constitution and by-laws; reports of officers; reports of committees; election of the executive board for 1948; election of 1948 officers, and other business.

The technical sessions will be held on the second day, with the morning program consisting of the following:—"Direct Application of Anhydrous Ammonia to the Soil," John R. Riley, jr., Spencer Chemical Company; "The Design and Construction of Pressure Vessels," H. C. Boardman, Chicago Bridge & Iron Company, and "Use of Unfired Pressure Vessels in the Liquefied Petroleum Gas Industry," Elmer O. Mattocks, Phillips Petroleum Company.

Papers to be presented at the afternoon session include "Modern Testing Methods for Determining Wall Thicknesses," F. Carl Saacke, Air Reduction Company; "Uses of Gases in the Steel Industry," Dr. J. B. Austin, United States Steel Corporation, and "Industrial Uses of Nitrogen and Rare Gases," J. M. Crockett, Air Reduction Company.

Speaker at the January 20 luncheon will be Dr. G. Edward Pendray, of Pendray & Liebert, who will take on "Rockets." The annual banquet and entertainment will be held in the Palm Room of the Starlight Roof on the evening of the second day.

Steel Shipping Container Research Program Underway

The Steel Shipping Container Institute has set in motion plans for a three-year project of research and development in the steel container field at the Battelle Memorial Institute, Columbus, Ohio. The $100,000 program is aimed at methods of obtaining the proper surface of a steel sheet for best results in coatings, and further studies of coating compounds which should be used for a wide variety of products.

The studies will attempt to broaden the base of types of products which can be shipped in steel containers and assist industrial users in obtaining shipping economies through purchase of the most practical types. Twenty-eight members of the steel institute are participating in the program and additional cooperation has been provided by manufacturing chemists who have formed a committee to aid the new program.

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ANTIMONY—16 cs, Vailco Servia, Hellenic Beach, Piraeus
ORE—784 bgs, Associated Metal & Mineral Corp, Santa Cecilia, Antofagasta

ANTIPYRENE—60 dms, Sterone Corp, Jefferson City Victory, Antwerp

ARABIC GUM—205 bgs, Stein, Hall & Co, City of Leeds, Port Sudan
500 bgs, Paul A Dunkel & Co, City of Leeds, Port Sudan
250 bgs, Guaranty Trust Co, Silverash, Port Sudan
750 bgs, Public National Bank & Trust Co, Silverash, Port Sudan
250 bgs, National City Bank, Silverash, Port Sudan
500 bgs, National Starch Product, Inc, Mahout, Port Sudan
500 bgs, Jacques Wolf & Co, Mahout, Port Sudan
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500 bgs, Wessel, Duval & Co, Mahout, Port Sudan
500 bgs, Thurston & Braidich, Mahout, Port Sudan
350 bgs, Stein, Hall & Co, Mahout, Port Sudan
250 bgs, S B Penick & Co, Mahout, Port Sudan
465 bgs, Innis, Speiden & Co, Mahout, Port Sudan

ARSENIC—211 bbls, American Smelting & Refining Co, Cable Eye, Tampico

ASBESTOS—6,270 bgs, Ulrich Asbestos & Rubber Co, City of Edinburgh, Laurenco Marques

BALATA—3 bls, H A Astlett & Co, Mooring Hitch, Paramaribo

BALL CLAY—100 tons, United Clay Mines Corp, Montreal City, Avonmouth
150 tons, Montreal City, Avonmouth

BAUXITE—2,610 tons, Alcoa Mining Co, Mooring Hitch, Paramaribo

BEEF LIVER CONCENTRATE—100 cs, Wilson & Co, Mormacdawn, Buenos Aires

BEES WAX—11 bgs, Schutte & Focke, Hilton, Ciudad Trujillo
38 bgs, Jacques Berne, Coastal Messenger, Kingston
25 bgs, Geck Trading Corp, Agwidawn, Trujillo City
9 bgs, Catz Trading Co, Coastal Defender, Havana

BERRIES, MEDICINAL—20 bgs, J L Hopkins & Co, Aalsdijk, Antwerp

BIRCH TAR OIL—2 dms, Stern, Morgenthau & Co, Mormacpine, Stockholm

BISMUTH—118 cs, Cerro De Pasco Copper Co, Santa Cecilia, Callao

BLOOD, DRIED—600 bgs, Wilson & Co, Inc, Mormacwren, Santos

BLUE CLAY—30 tons, United Clay Mines Corp, Montreal City, Avonmouth

BUCHU LEAVES, OVAL—5 bls, Allaire, Woodward & Co, City of Edinburgh, Capetown
SHORT—8 bls, Allaire, Woodward & Co, City of Edinburgh, Capetown

BRUCINE SULPHATE—5 cs, New York Quinine & Chemical Works, City of Leeds, Calcutta

CANARGRE ROOT—25 bgs, Parke, Davis & Co, Cable Eye, Vera Cruz

CANANGA OIL—5 dms, Stein, Hall & Co, Steel Advocate, Tandjong Priok

CARAWAY OIL—2 cs, C L Huisking & Co, Westerdam, Rotterdam

CARAWAY SEED—200 bgs, Louis Furth, Inc, Notre Dame Victory, Rotterdam
100 bgs, R L Friedler, Westerdam, Rotterdam

CARNAUBA WAX—88 bgs, Natural Product Corp, Loide Panama, Fortaleza
66 bgs, Bank of London, South America, Loide Panama, Fortaleza
44 bgs, Wm M Allison & Co, Loide Panama, Fortaleza
44 bgs, Wm M Allison & Co, Mormacdawn, Fortaleza
66 bgs, Cornelius Product Corp, Mormacdawn, Fortaleza
22 bgs, Stein, Hall & Co, Mormacdawn, Fortaleza
33 bgs, Innis-Speiden & Co, Mormacdawn, Fortaleza
106 bgs, Natural Product Corp, Mormacdawn, Fortaleza
66 bgs, F R Ross & Co, Mormacdawn, Fortaleza
142 bgs, Smith & Nichols, Mormacdawn, Fortaleza
56 bgs, Chase National Bank, Mormacdawn, Fortaleza
61 bgs, Distributing & Trading Co, Mormacdawn, Fortaleza
33 bgs, Wax & Rosin Product, Inc, Mormacdawn, Fortaleza
213 bgs, W R Grace & Co, Mormacdawn, Fortaleza
144 bgs, General Wax Refining Co, Mormacdawn, Fortaleza
1,164 bgs, S C Johnson & Son, Mormacdawn, Fortaleza
472 bgs, Wessel, Duval & Co, Mormacdawn, Fortaleza
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500 bgs, East Asiatic Co, Mormacdawn, Buenos Aires
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1,900 bgs, American British Chemical Supplies, Inc, Mormacdawn, Buenos Aires
6,000 bgs, American Cyanamid & Chemical Corp, Mormacdawn, Buenos Aires

CASHEW CAKE—454 bgs, Brasil Oiticica, Inc, Loide Panama, Fortaleza

CASHEW SHELL LIQUID—199 dms, Brasil Oiticica, Inc, Loide Panama, Fortaleza

CASSIA—500 bls, A G Dunn, Dona Aniceta, Hongkong
29 bls, Knickerbocker Mills Co, Dona Aniceta, Hongkong
106 bls, Kane Import Corp, Dona Aniceta, Hongkong

CASSIA OIL—5 dms, Orbis Products Corp, Dona Aniceta, Hongkong
8 dms, Dodge & Olcott Co, Dona Aniceta, Hongkong

CASTOR BEANS—1,667 bgs, Sherwin Williams Co, Loide Panama, Bahia
2,520 bgs, Spencer Kellogg & Sons, Loide Panama, Recife
5,700 bgs, Baker Castor Oil Co, Loide Panama, Recife
2,425 bgs, Spencer Kellogg & Sons, Loide Panama, Fortaleza
4,923 bgs, Spencer Kellogg & Sons, Mormacdawn, Fortaleza
400 bgs, Spencer Kellogg & Sons, Coastal Messenger, Kingston
16,874 bgs, Baker Castor Oil Co, Marinera, Recife
3,419 bgs, Sherwin Williams Co, Mormacwren, Santos
20,378 bgs, Baker Castor Oil Co, Loide America, Santos

CHALK, PRECIPITATED—750 bgs, H J Baker & Bro, Montreal City, Avonmouth

CHILLIES—105 bgs, J Raphael & Sons, Coastal Messenger, Kingston

CHINA CLAY—75 tons, 19 cwt, United Clay Mines Corp, Montreal City, Avonmouth

CHIRETTE HERBS—11 bls, City of Leeds, Vizagapatam

CINCHONA PRODUCTS—7 cs, Guaranty Trust Co, Aalsdijk, Rotterdam

CINNAMON—200 bls, C T Wilson & Co, Mount Rogers, Colombo
50 bls, Holland Colombo Trading Society, Talisse, Colombo

CINNAMON LEAF OIL—5 dms, Samuel Chase, London

CITRONELLA OIL—49 dms, Volkart Bros, Samuel Chase, London
2 bgs, Dodwell & Co, Mahout, Colombo

CLOVES—400 bgs, Giyandan-Delawanna, Battle Creek Victory, Durban
300 bgs, W J Bush & Co, Battle Creek Victory, Durban
500 bgs, Ungerer & Co, Battle Creek Victory, Durban
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COCOA RESIDUE—2,000 bgs, United States Line, Samuel Chase, London

COCONUT MEAL 277 bgs, Wessel, Duval & Co, Coastal Messenger, Kingston

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CODLIVER OIL—369 bbls, C L Huisking & Co, Ramenfjord, Bergen
100 dms, McKesson & Robbins, Sacramento, Hull
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COPAL GUM—217 bgs, G H Lincks, Inc, Steel Advocate, Manila
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221 bgs, O G Innes Corp, Steel Advocate, Manila
468 bgs, H P Winter & Co, Mindorin, Matadi
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COPRA—1,700 tons, Spencer Kellogg & Sons, San Vincente, Tabaco
1,000 tons, National City Bank, San Vincente, Cagayan
1,700 tons, Spencer Kellogg & Sons, San Vincente, Mercedes
750 tons, General Foods Product Co, Doctor Lykes, Legaspi
560 tons, Spencer Kellogg & Sons, Doctor Lykes, Legaspi
1,000 tons, Doctor Lykes, Siam
687 tons, Procter & Gamble Co, Doctor Lykes, Magimis
300 tons, General Foods Product Co, Dona Aniceta, Zamboanga
700 tons, General Foods Product Co, Dona Aniceta, Jolo

CORIANDER SEED—305 bgs, H S Cramer & Co, Mormacdawn, Buenos Aires

COTTON LINTERS—108 bls, Williamson Northrup Co, Mormacwren, Santos

CRESYLIC ACID—50 dms, Samuel Chase, London
90 dms, Central Hanover Bank, Montreal City, Avonmouth
50 dms, Guaranty Trust Co, Montreal City, Avonmouth

CUBE ROOT, POWDERED—481 bgs, Santa Cecilia, Callao

CUMIN SEED—202 bgs, Sodeco Trading Corp, Mount Rogers, Bombay

CYANIDE, PRECIPITATED—9 cs, American Metal Co, Santa Cecilia, Puna
4 cs, Irvington Smelting & Refining Works, Santa Cecilia, Puna

DAMMAR GUM—50 cs, O G Innes Corp, Mount Rogers, Singapore
1,750 bgs, O G Innes Corp, Silverash, Singapore
143 bgs, A J Wittenberg Corp, Silverash, Singapore

DERRIS ROOT—9 bdls, Rothschild & Co, Mount Rogers, Singapore
130 bls, R J Prentiss & Co, San Vincente, Cebu
80 bls, Silverash, Singapore

DEXTRIN—50 bgs, O Ekman, Aalsdijk, Rotterdam
150 bgs, Stein, Hall & Co, Jefferson City Victory, Rotterdam
400 bgs, Stein, Hall & Co, Westerdam, Rotterdam

DYES, ANILIN—66 dms, Ciba Co, Mount Rogers, Genoa
44 bbls, Geigy Co, Notre Dame Victory, Antwerp
2 cks, Geigy Co, De Grasse, Havre
5 cms, Carbic Color & Chemical Co, De Grasse, Havre
3 cs, Carbic Color & Chemical Co, De Grasse, Havre
80 dms, Sandoz Chemical Works, De Grasse, Havre
111 dms, Ciba Co, Jefferson City Victory, Antwerp
1 cs, Ciba Co, Jefferson City Victory, Antwerp
17 dms, Carbic Color & Chemical Co, Bienville, Antwerp
1 cs, Carbic Color & Chemical Co, Bienville, Antwerp

ESSENTIAL OIL—1 cs, Magnus, Mabee & Reynard, Cypria, Tanger
2 bbls, Dodge & Olcott Co, De Grasse, Havre
1 cs, Dodge & Olcott Co, De Grasse, Havre

FERRO TITANIUM—40 dms, Samuel Chase, London

FIBRE, DRIED—55 bgs, Hariz Mountain Products Co, Cable Eye, Vera Cruz
82 bgs, Cable Eye, Vera Cruz

FUEL OIL—115,039 bbls, Standard Oil Co N J, Esso Buffalo, Aruba
95,059 bbls, Standard Oil Co N J, Esso Bolivar, Aruba
95,009 bbls, Standard Oil Co N J, Esso Aruba, Aruba
110,003 bbls, Standard Oil Co N J, Esso Raleigh, Aruba

GAS OIL—106,923 bbls, First National Oil Co, Potrero Hills, Tampico

GELATIN—37 cs, General Aniline & Film Corp, American Farmer, Bremen
100 bgs, T M Duche & Sons, De Grasse, Havre
104 bgs, Transatlantic Animal By-Product Co, De Grasse, Havre
SHEET—25 cs, Coignet Chemical Co, Union Victory, Antwerp

GHATTI GUM—57 bgs, Paul A Dunkel & Co, Mount Rogers, Bombay

GLANDS—429 cs, Tupman, Thurlow Co, Mormacdawn, Buenos Aires

GLUESTOCK—108 bls, National City Bank, San Vincente, Cebu

GRAPHITE—500 bgs, Charles Pettinos, Talisse, Colombo
500 bgs, Asbury Graphite Mills, Talisse, Colombo
250 bgs, Superior Flake Graphite Co, Talisse, Colombo
250 bgs, G Pettinos, Talisse, Colombo

HENBANE LEAVES—40 bls, S B Penick & Co, Union Victory, Antwerp

HERBS—3 bgs, Wm M Allison & Co, Aalsdijk, Antwerp
3 bls, R D Heins, Aalsdijk, Antwerp

HERRING OIL—2 dms, Pittsburgh Plate Glass Co, Bolivia, Oslo

JALAP ROOT—27 bgs, Cable Eye, Vera Cruz

JAMRUL BARK—1 bdl, City of Leed, Vizagapatam

JUNIPER OIL—2 cans, J W Lyon & Co, Union Victory, Antwerp

KYANITE—1,728,384 lbs, Golwynne Chemical Co, City of Edinburgh, Mombasa
580 tons, Golwynne Chemical Co, Battle Creek Victory, Mombasa

LAVENDER EXTRACT—7 cks, Alltransport, Inc, De Grasse, Havre
OIL—2 cks, Dodge & Olcott Co, Indochina, Havre

OIL, SPIKE—11 dms, H Hogan & Co, Inc, Drake Victory, Barcelona

LEMON OIL—3 dms, Cable Eye, Vera Cruz

LEMONGRASS OIL—3 ams, W J Bush & Co, Coastal Messenger, Kingston
17 dms, Banque Belge pour l'Etranger, Mandarin, Matadi

LICORICE EXTRACT—1,515 bgs, W E Martin Co, Hellenic Peach, Izmir
ROOT—75 bgs, W E Martin Co, Hellenic Beach, Izmir

LIME JUICE—50 cartons, Maxfield McLees, Inc, Samuel Chase, London

LIME OIL—14 cs, Dodge & Olcott Co, Mooring Hitch, Georgetown
2 dms, Cable Eye, Vera Cruz

LIVER EXTRACT—7 cs, W S Vitamin Export Corp, Rio Barana, Buenos Aires

MACE—12 cs, Knickerbocker Mills Co, Silverash, Penang

MAGNESITE—2,400 bgs, Golwynne Chemical Corp, City of Leed, Madras

MASTIC GUM—15 cs, S B Penick & Co, Alma Victory, Piraeus

MICA—5 cs, Bankers Trust Co, Samuel Chase, London
38 cs, Asheville Schoonmaker Mica Co, Mormacdawn, Buenos Aires
10 cs, Asheville Mica Co, City of Leed, Calcutta
100 cs, J F Gatneau Co, City of Leed, Calcutta
103 cs, Chartered Bank of India, Australia, China, City of Leed, Madras
54 cs, Otto Gerdau Co, City of Leed, Madras
103 cs, J F Gatneau Co, Mahout, Calcutta
122 cs, Eugene Munsell & Co, Mahout, Calcutta
10 cs, A O Schoonmaker Insulation Co, Mahout, Calcutta
10 cs, William Brand & Co, Mahout, Calcutta

MOLASSES—310 tons, W R Grace & Co, Santa Cecilia, Salaverry

MOULDING POWDER—51 dms, Samuel Chase, London

MUSTARD SEED—147 bgs, Charles Gulden, Inc, Devils Lake Victory, Copenhagen

NAPHTHENIC ACID—2,188 bbls, Standard Oil Co N J, Esso Aruba, Aruba

NIGER SEED—561 bgs, City of Leeds, Vizagapatam

NUTMEGS—66 bgs, W E Martin Co, Westerdam, Rotterdam
60 bgs, Mount Rogers, Singapore

OAK LEAVES—4 bls, City Product Co, Notre Dame Victory, Antwerp

OITICICA OIL—700 dms, Brasil Oiticica, Inc, Loide Panama, Fortaleza
200 dms, L N Jackson & Co, Mormacdawn, Fortaleza

OLEO-RESIN CAPSICUM—4 cs, J W Lyon & Co, Union Victory, Antwerp

ORANGE BLOSSOM WATER—2 dms, Dodge & Olcott Co, Coastal Messenger, Kingston

OPIUM—188 cs, Barr Shipping Co, Exbrook, Istanbul
125 cs, Barr Shipping Co, Alma Victory, Istanbul

ORANGE OIL—20 cs, Victory Shipping Co, Coastal Messenger, Kingston

ORIGANO LEAVES—170 bgs, Stickney & Poor Spice Co, Cable Eye, Vera Cruz
170 bgs, Knickerbocker Mills Co, Cable Eye, Vera Cruz
105 bgs, Levy & Levis Co, Cable Eye, Vera Cruz

OSSEIN—718 bgs, Atlantic Gelatine Co, Blenville, Antwerp

PAPAIN—30 cs, American Ferment Co, City of Edinburgh, Mombasa
81 cs, American Ferment Co, City of Leed, Colombo
22 cs, American Ferment Co, Battle Creek Victory, Mombasa
20 cs, S B Penick & Co, Mahout, Colombo

PAPRIKA—500 bgs, M J Gidomleck Co, Exbrook, Lisbon
100 bgs, Wm M Allison & Co, Malange, Lisbon

PATCHOULI LEAVES—100 bgs, Dodge & Olcott Co, City of Edinburgh, Mombasa
40 bls, Lu Curto & Funk, Silverash, Singapore

PATCHOULI OIL—5 cs, Dodge & Olcott Co, Mount Rogers, Singapore
5 cs, Dodge & Olcott Co, Silverash, Penang

PEPPER, BLACK—100 bgs, A G Dunn, Dona Aniceta, Hongkong
100 bgs, Bank of Manhattan Co, City of Leed, Cochin
52 bgs, Levys Trading Co, Cyprin, Tanger

WHITE—250 bgs, Mincing Trading Corp, Dona Aniceta, Hongkong

PETITGRAIN OIL—2 dms, Dodge & Olcott Co, Mormacdawn, Buenos Aires
1 dm, Geo Lueders & Co, Coastal Messenger, Kingston

PETROLEUM, CRUDE—107,783 bbls, Standard Oil Co N J, Black Hills, Cartagena
100,131 bbls, Gulf Oil Corp, Gulfhawk, Las Piedras
111,049 bbls, Standard Oil Co N J, Hood River, Puerto La Cruz
127,173 bbls, Standard Oil Co N J, Esso Littlerock, Puerto La Cruz
122,778 bbls, Standard Oil Co N J, Esso New Haven, Puerto La Cruz
104,822 bbls, Gulf Oil Corp, Gulfbird, Las Piedras

POPPYSEED—125 bgs, Atlanta Trading Co, Aalsdijk, Rotterdam
200 bgs, Becker-Mayer Seed Co, Aalsdijk, Rotterdam
2,00 bgs, Levy & Levis Co, Westerdam, Rotterdam

POTASSIUM HYDROXIDE—25 dms, Bergstrom Trading Co, Inc, Devils Lake Victory, Gothenburg

QUEBRACHO EXTRACT—20,504 bgs, C M Loeb-Rhoades & Co, Mormacdawn, Buenos Aires
5,000 bgs, International Products Corp, Mormacdawn, Buenos Aires

QUICKSILVER—377 flasks, Chase National Bank, Cable Eye, Vera Cruz
328 flasks, Chase National Bank, Cable Eye, Tampico

QUININE HYDROCHLORIDE—2 cs, Allied Materials Co, Malange, Lisbon

RADIUM ELEMENT—3 cs, Radium Chemical Co, Houffalize, Antwerp

ROOT, MEDICINAL—3 cs, S B Penick & Co, Mount Rogers, Leghorn

ROSE EXTRACT—1 cs, De Grasse, Havre

ROSEMARY OIL—11 dms, W J Hogan & Co, Inc, Drake Victory, Barcelona

SAGE OIL—3 dms, W J Hogan & Co, Inc, Drake Victory, Barcelona

SANDALWOOD—50 bgs, Dodge & Olcott Co, Mount Rogers, Bombay

SEED, MEDICINAL—10 bls, S B Penick & Co, Aalsdijk, Antwerp

SEEDLAC—150 bgs, The Mantrose Corp, City of Leed, Calcutta
250 bgs, The Mantrose Corp, Mahout, Calcutta
100 bgs, T H Termin Co, Mahout, Calcutta
300 bgs, Dings & Schuster, Mahout, Calcutta
1,200 bgs, Ralli Bros, Mahout, Calcutta
675 bgs, Bradshaw, Praeger & Co, Mahout, Calcutta

SHELLAC—100 bgs, Bradshaw, Praeger & Co, City of Leed, Calcutta
250 bgs, Colony Import & Export Corp, City of Leed, Calcutta
350 bgs, Schwab Bros Corp, City of Leed, Calcutta
70 bgs, F N Rowe, City of Leed, Calcutta
200 bgs, Gillespie-Rogers-Pyatt Co, City of Leed, Calcutta
100 bgs, Wm Zinsser & Co, City of Leed, Calcutta
1,148 bgs, Wm Zinsser & Co, Mahout, Calcutta
200 bgs, Gillespie-Rogers-Pyatt Co, Mahout, Calcutta
100 bgs, Dings & Schuster, Mahout, Calcutta
250 bgs, Wm Diehl & Co, Mahout, Calcutta
700 bgs, Ralli Bros, Mahout, Calcutta
55 bgs, Cornelius & Suhr, Mahout, Calcutta
300 bgs, Colony Import & Export Corp, Mahout, Calcutta

SIENNA EARTH—3 bgs, M Pasquet, Alma Victory, Larnaca
25 bgs, T H Dietz, Alma Victory, Larnaca

SODA CAUSTIC—850 cks, De Grasse, Havre

SODIUM HYDROXIDE—50 cs, Bergstrom Trading Co, Mormacpine, Stockholm

STRAMONIUM LEAVES—7 bls, S B Penick & Co, Mormacdawn, Buenos Aires

TALC—200 bgs, Whittaker, Clark & Daniels, Mount Rogers, Bombay

TALL OIL PITCH—1,052 bbls, G S Ziegler & Co, Mormacpine, Stockholm

TAMARIND SEED—57 bgs, Stein, Hall & Co, Mount Rogers, Bombay

TAPIOCA FLOUR—6,000 bgs, Geismar & Co, Mormacwren, Porto Alegre
1,000 bgs, Pellew, Wilson & Sons, Mormacwren, Porto Alegre
19,500 bgs, Geismar & Co, Loide America, Santos
1,852 bgs, J Henry Schroeder Banking Corp, Si Brodin, Itajai
820 bgs, Bank of New York, Si Brodin, Itajai
11,184 bgs, Stein, Hall & Co, Si Brodin, Itajai

TARTARIC ACID—200 dms, Arthur B Frank, Monte Iclar, Barcelona

TEAWASTE—2,350 bgs, Citro Chemical Co, City of Leed, Calcutta
708 bgs, Harrison & Crossfield, City of Leed, Calcutta

THYME OIL—3 dms, W J Hogan & Co, Inc, Drake Victory, Barcelona

TONKA BEANS—11 cks, Machado & Co, Mormacwren, Fort au Spain

TRAGACANTH GUM—27 cs, V Simidian, Exbrook, Beyrouth

TUNG OIL—200 tons, Hendry & Co, Dona Aniceta, Shanghai
270 tons, Pacific Vegetable Oil Co, Dona Aniceta, Shanghai
275 tons, China Natural Trading Co, Dona Aniceta, Shanghai

ULTRAMARINE BLUE—218 cks, Standard Ultramarine Co, Searamento, Hull

UMBER EARTH—36 bgs, T H Dietz, Alma Victory, Larnaca

UREA—2,510 bgs, Catalin Corp of America, Molda, Rogen

VANADIUM ORE—3,410 bgs, Vanadium Corp of America, Santa Cecilia, Callao

VANILLA BEANS—13 cs, McCormick & Co, Cable Eye, Vera Cruz
154 cs, Dunman & Smeltzer, Battle Creek Victory, Durban

WATTLE BARK—3,304 bls, Vermilye Co, City of Edinburgh, Mombasa
5,457 bls, Hammond & Carpenter, City of Edinburgh, Durban
2,782 bls, American Dyewood Co, City of Edinburgh, Durban
EXTRACT—368 bgs, M S Kattenhorn Co, Battle Creek Victory, Durban
1,787 bgs, Vermilye Co, City of Edinburgh, Mombasa
900 bgs, Littlejohn & Co, City of Edinburgh, Durban

WHALE OIL—2 dms, M W Kellogg & Co, Bolivia, Oslo

WHITING—1,000 bgs, Taintor Trading Co, Seamemehe, Hull

WITHERITE—108 tons, E I du Pont de Nemours & Co, Setramento, Hull

WOLFRAM ORE—500 bgs, Chartered Bank India, Australia, China, Dona Aniceta, Hongkong

YLANG-YLANG OIL—4 dms, United States Rubber Co, Battle Creek, Durban

Baltimore

ANTIMONY REGULUS—50 cs, Bank de Credit Commercial, Ognat, Antwerp

CHROME ORE—6,577 tons, Philipp Bros, Alma Victory, Islenderan

COCOA—620 tons, Procter & Gamble Co, Doctor Lykes, Jiminez
2,500 tons, Procter & Gamble Co, Doctor Lykes, Cebu
1,488 tons, Procter & Gamble, Dick Lykes, Cebu

FUEL OIL—30,000 bbls, Standard Oil Co N J, Jorges, Aruba

LICORICE ROOT—7,827 bls, MacAndrews & Forbes Co, Hellenic Beach, Izmir

MANGANESE ORE—1,749 tons, Bethlehem Steel Co, Battle Creek Victory, Durban
500 tons, Philipp Bros, Mahout, Calcutta

SODIUM SILICOFLUORIDE—100 bgs, Harshaw Chemical Co, Devils Lake Victory, Copenhagen
320 bgs, Harshaw Chemical Co, Bolivia, Copenhagen

WATTLE BARK EXTRACT—6,278 bgs, Vermilye Co, City of Edinburgh, Durban

Boston

ARGOL—80 bgs, W O Durfee Co, Mount Rogers, Naples

GLUESTOCK—34 bdls, H Remis & Co, Agwidawn, Trujillo City
79 cerons, H Remis & Co, Agwidawn, Trujillo City
25 bls, First National Bank, Santa Cecilia, Callao

OSSEIN—805 bgs, Atlantic Gelatine Co, Notre Dame Victory, Antwerp

STARCH, CHEMICAL, TREATED—1,100 bgs, A M Meincke, Jefferson City Victory, Rotterdam

Norfolk

MANGANESE ORE—4,616,400 lbs, E J Lavino & Co, City of Edinburgh, Durban

Philadelphia

BERYLLIUM ORE—980 bgs, Foote Mineral Co, Battle Creek Victory, Walrus Bay

CARAWAY SEED—50 bgs, Levy & Levis Co, Bernard Victory, Rotterdam

CASTOR OIL—219 tons, Philadelphia National Bank, Loide Panama, Fortaleza

LEPIDOLITE ORE—508 tons, Foote Mineral Co, Battle Creek Victory, Wales Bay

MANGANESE ORE—5,500 tons, E J Lavino & Co, Mandarin, Freetown

PEATMOSS—250 bls, H S Dorf & Co, Notre Dame Victory, Rotterdam
250 bls, New Amsterdam Import Co, Barnard Victory, Rotterdam

SODA SILICOFLUORIDE—320 bbls, H Kohnstamm & Co, Devils Lake Victory, Copenhagen

VANILLA BEANS—21 cs, M Curtizas Co, Battle Creek Victory, Durban

WATTLE BARK EXTRACT—5,583 bgs, Bank of New York, Battle Creek Victory, Durban

San Francisco

COPRA—600 tons, Bank of California, San Vincente, Iloilo
1,000 tons, El Dorado Oil Works, Dick Lykes, Nato

Obituaries

Christopher Clarke

Christopher Clarke, secretary and treasurer of John Clarke & Co., seed and spice broker, New York, died January 9 after an illness lasting a little more than a week. He was seventy-five years old.

Mr. Clarke was born October 21, 1872. The early years of his life were spent in the grain trade, serving as floor representative for grain firms trading on the New York Produce Exchange. His brother, the late John Clarke, founded the firm of John Clarke & Co. in 1890, to act as brokers and also to serve as United States agent for foreign shippers.

Christopher Clarke joined his brother in 1905, taking charge of the seed department of the business, while his brother cared for the spice division. On the death of the brother, he succeeded to the direction of all the company's affairs.

He was a member of the American Spice Trade Association, serving many times on the arbitration committees of that body and participating in the work that led to the creation and adoption of the ASTA standard contract. He was unmarried and lived with his aged sister, who survives together with Mrs. John Clarke, widow of his brother.

Dr. Frank B. Dains

Dr. Frank B. Dains, professor emeritus of chemistry at the University of Kansas, died January 5, at Lawrence, Kans. He was seventy-eight years old. Dr. Dains had also taught at Northwestern University and at universities in Berlin and Freiberg, Germany.

Joel H. Foy

Joel H. Foy, chairman of the board of the Maltbie Chemical Company, Newark, N. J., died in his suite in the Edgemere hotel, East Orange, N. J., on January 7. He was eighty-one years old.

A retail druggist from the time he graduated from the University of Buffalo in 1887 until he joined Maltbie in 1899 as treasurer, Mr. Foy remained with the pharmaceutical manufacturing firm throughout his career. He was named chairman of the board in 1942.

He served two terms as president of the American Pharmaceutical Manufacturers Association, and was a former vice-president and member of the executive committee of the American Drug Manufacturers Association.

Henry Green

Henry Green, chemist for the Interchemical Corporation, New York, since 1935, died at his home in Easton, Pa., on January 6. He was fifty-nine years old. Mr. Green joined Interchemical after twelve years association with the International Printing Ink Corporation.

Prior to that he was with the New Jersey Zinc Company, where he was instrumental in establishing the company's program of fundamental research. In 1929, Mr. Green was president of the New York Microscopical Society.

John C. Millar

John C. Millar, retired oil industry executive, died January 3 at his home in the Lenox hotel, Buffalo, N. Y. He was seventy-seven years old. Mr. Millar was associated with the Standard Oil Company for twenty years, and in 1919 was made treasurer and a director of the British-American Oil Company, Toronto. He was also vice-president and a director of the British-American Producing Company, Tulsa, Okla., until he retired in 1943.

Arthur J. Pierce

Arthur J. Pierce, owner of the Monadnock Paper Mills, Bennington, N. H., died January 8 in that city of a heart ailment. He was seventy-one years old. Mr. Pierce had become a partner in the paper company in 1900, when it was known as W. T. Barker & Co. The concern was reorganized under its present name two years later, and Mr. Pierce became its president and majority stockholder.

Roland P. Prentys

Roland P. Prentys, retired manager of the Pacific Coast branch of the National Lead Company, died recently at his home in Pebble Beach, Calif. He was sixty-six years old.

Mr. Prentys entered the employ of the National Lead Company at San Francisco in 1909, shortly after coming to this country from New Zealand. He was appointed manager of the Pacific Coast branch in 1932, and held that position until his retirement in 1943.

John H. Ballard, owner of the Kentucky Chemical Supply Company, Lexington, Ky., died January 1 in that city of a heart attack. He was thirty-four years old.

Dr. James W. Goldthwait, professor of geology at Dartmouth College, died January 1 at his home in Hanover, N. H., of a heart attack. He was sixty-seven years old. He had been an assistant professor at Northwestern University before starting at Dartmouth in 1911.

John C. C. Hesseler, traffic manager of the Tobacco By-Products & Chemical Corporation, died January 2 in St. Joseph Infirmary, Louisville, Ky. He was fifty-five years old.

Hugo T. Hesson, an employee of the soils and fertilizer division of the Allied Headquarters natural resources section in Tokyo, died January 4 in the United States Army's Forty-ninth General hospital in that city. He was fifty years old.

Russell P. Mott, salesman for the New York office of General Dyestuff Corporation, died recently at his home in New York. He was fifty-four years old. Mr. Mott started his career with H. A. Metz & Co. in 1910.

Charles W. Parsons, retired secretary-treasurer of the Phelps-Dodge Corporation, New York, died January 5 at his home in White Plains, N. Y. He was ninety-seven years old. Mr. Parsons had been associated with Phelps-Dodge for fifty years when he retired in 1927.

James J. Powers, a supervisor in the chemical division of the Standard Oil Development Company, Linden, N. J., died January 1 in Alexian Brothers hospital, Elizabeth, N. J. He was thirty-nine years old.

Dr. Harry B. Riffenburgh, associate professor of chemistry at Virginia Polytechnic Institute, died January 5 at Blacksburg, Va. He was fifty-six years old.

Lieut. Comdr. James C. Small, president of the Desron Company, pharmaceutical firm, Los Angeles, Calif., died January 3 of a heart attack in his temporary home in Chevy Chase, Md. He was thirty-six years old. He had been called back to active duty last October after having been placed on the inactive list in 1945.

Miss Jane Wood, receptionist for the American Cyanamid Company, New York, died recently in New York hospital. She was thirty-five years old.

Whelan Drug Assigns Schneider to New Post

Irving A. Schneider has been appointed merchandise manager of Whelan Drug Stores Pacific Coast operations. Associated with the company for seventeen years, he was formerly toiletry division manager. The company also announced the promotion of Tobin Hechkoff to the post of division manager of all general sundries for West Coast operations. He has been associated with Whelan for eighteen years and has served as buyer in various merchandise categories.

Trade Briefs

Begley Drug Company has been incorporated in Richmond, Ky., by Robert B., Shirley E., and Byron B. Begley, Don C. McFadden and Arnold S. Gregory.

Sandoz Chemical Works, New York, has appointed Murray Breese Associates, Inc. (New York) as its agency to handle medical journal advertising during the coming year.

Vitamin A Buyers ARE GETTING OUT THEIR PENCILS!

The New U.S.P. Vitamin A Standard now in force has set buyers to figuring. They know they must supply what they claim.

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Hercules Appoints LeBron Assistant Explosives Head

Hercules Powder Company, Wilmington, Del., has announced the appointment of L. C. LeBron as assistant manager of its explosives department's contractors division. Mr. LeBron joined Hercules on May 1, 1927, as a member of the company's sales and service organization at Birmingham, Ala. In 1929 he was transferred to Wilmington where he became agricultural engineer in charge of the sale of explosives for agricultural purposes. He later served as explosives department representative in Terre Haute, Ind.

APhA Selects Little As New President-Elect

OPD Washington Bureau

Ernest Little, of Newark, N. J., was selected as president-elect of the American Pharmaceutical Association in a count of mail ballots of the members. Others selected were first vice-president-elect, Mearl D. Pritchard, Buffalo, N. Y.; and second vice-president-elect, Frederick D. Lascoff, New York.

Hans S. Hansen, of Chicago, was chosen as member-elect of the council for a one year term, and the following were selected for terms of three years:—Martin E. Adamo, Boston; Don E. Francke, Ann Arbor, Mich., and Robert L. Swain, New York.

APhA New York Branch Meets Tonight

Jerome Trichter, director of the bureau of food and drugs of the New York City Department of Health, will speak on "Barbiturates" at a meeting of the New York branch of the American Pharmaceutical Association, to be held in the Columbia University College of Pharmacy, at 8:30 tonight. He will present and discuss the new amendments to the sanitary code governing the dispensing and the sale of barbiturates.

Barber Asphalt Appoints A.K. Tyson Vice-President

Barber Asphalt Corporation, Barber, N. J., has announced that on February 1, A. Knox Tyson will join it as vice-president, with headquarters in Houston, Tex. Mr. Tyson was formerly manager of the land development department, southern region, for the Continental Oil Company.

Baumann Heads Textile Color Sales of Interchemical

Interchemical Corporation, New York, has appointed Fred Baumann sales manager and John Zelak plant manager of the textile colors division of the dyestuffs department. Mr. Baumann joined the company in 1938 and Mr. Zelak in 1945.

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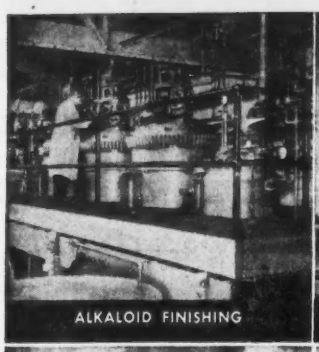
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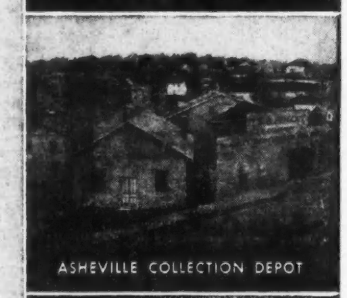
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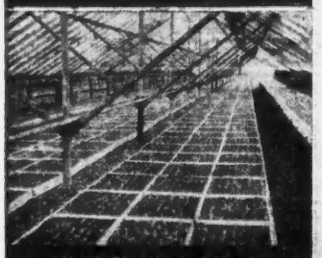
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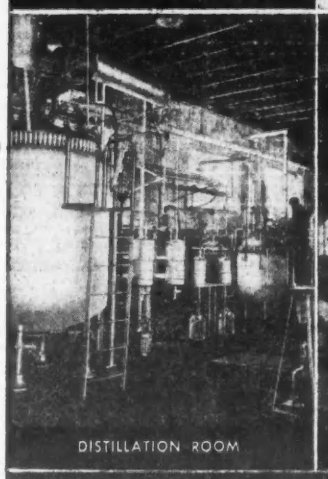
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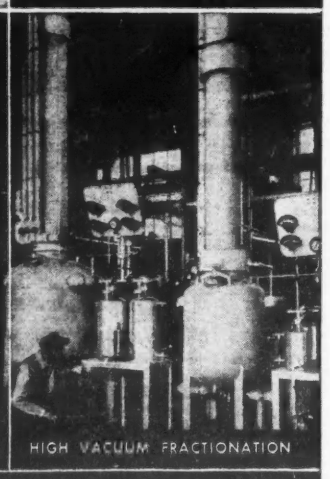
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Botanical Drugs, Spices, Gums

Although a severe ice storm laid power lines low and dislocated highway and railroad transportation from the Hudson river west to the Delaware river the night of January 1, crude drug operations of any sort in the New York area were interrupted but slightly. The principal effect was felt in the working personnel in the botanical drug establishments. The staffs of employees were mainly intact by Tuesday, although as late as last Friday, those living in the New Jersey environs were often still without heat or light.

Some of unknown force swept some French condimentals last week, sending the replacement costs sensationally higher and creating a virtually nominal spot position on marjoram and thyme. Other condimentals developing a stronger position included Mexican anise, green cardamom, and distant black pepper futures.

Balsams were rejuvenated during the period under review. Copaiba, tolu and Peru were all advanced. The exception to the general rule was fir balsam, both the Canadian and Oregonian materials being made available at somewhat lower prices. Jamaica and Rhattoon ginger root also sold at an advance. Low priced ergot appeared to have moved into consumption and prices rose in sympathy with higher replacement costs.

Synthetic camphor was revised downward sharply, the movement coming at a time when turpentine, the basic raw material, had been actually selling at prices substantially higher than had prevailed when the previous schedule on camphor had been set. It could be that restoration of camphor production on Taiwan (Formosa) island shows a promise which has begun to affect the position of domestic synthetic.

Cubeb berries were generally lower and competitive in line with the greater availability of the item. Also, papain once more turned downward in price, though how permanent or extended the movement might be remained to be developed.

Black pepper on spot was down moderately but nearby futures held. Chinese star anise was more competitive at a price concession. East Indian mace to arrive was substantially cheaper.

Balsams

Copaiba—The new year opened on a stronger note and by the end of last week quotations had risen to 70c. to 75c. per pound under good demand against not excessive stocks.

Fir—Canadian balsam has eased slightly and quotations late last week were down to the basis of $28 to $29 per gallon. Oregon balsam was also easier and lower at $2.35 to $2.40 per gallon.

Peru—The market has turned firmer. Competition was less a part of trade and sellers generally took a stronger view on the item. Prices were higher at 90c. to 95c. per pound and very firm.

Tolu—The period of easier undertone has ended. Last week, prices resumed their upward trend and by the end of the period, the market was very firm at $3.65 to $3.70 per pound. Offerings were moderate and all hands showed reserve in making sales proposals.

Barks

Cinchona—Direct war damage to plantations in the Netherlands Indies, as of August, 1945, was estimated at slightly more than $1,350,000, according to the Japanese administration. Among plantations devoted to eight important crops, this was the least amount of damage sustained. In 1945, 42,000 acres were in cinchona cultivation. Imports of bark from Java in the period January-September amounted to 122,309 pounds, valued at $34,556.

Cocillana—Demand continued in fair volume and the market prices had a very steady undertone through the past week. Supply was expected to see consumers through the active season.

White Pine—Movement continued to be very and acted to the full support of prevailing prices. Supply is doing a better job this year than it did a year ago but there is no surplus stock now.

Beans

Calabar—Transactions in this article have been few and far between for a long time past and the market was without activity during the period under review. The market was virtually nominal.

Vanilla—Present spot prices on Bourbon beans do not reflect replacement costs and quotations must eventually either advance on spot or decline at the source—developments that lay in the lap of the gods. Supplies of Mexican cuts were said to be getting rather short. Whole beans ranged $8.25 to $9.50 per pound as to quality and on quantity lots, the inside might occasionally be shaded.

Berries

Cubeb—The market has eased once again, prices becoming lower at 70c. to 75c. per pound and conditions tending to bring about a situation more favorable for consumer operations. Some additions to spot stocks were recently made.

Juniper—Dullness characterized the market in most respects and prices remained unsettled and continued to have a tendency to sag under the gain in local competition between suppliers.

Flowers

Chamomile—September importations of this material totaled 2,315 pounds, against none in August, according to the Department of Commerce. Total arrivals from January 1, 1947, through September became 177,578 pounds, against 100,124 pounds in the corresponding period in 1946.

Clover—Red clover tops were very steady. Country costs and foreign replacement quotations operated to that and even though the demand current during the past week was light and irregular.

Linden—Jobbing business was fairly active last week but transactions involving substantial quantities were in abeyance. Supply has not been increased for some time past. Foreign prices were relatively high.

Herbs and Leaves

Buchu—During the past week, 5 bales of oval and 8 bales of shortbuchu reached here from Capetown, South Africa. Also, September arrivals from that point totaled 3,738 pounds, against the August arrival of 6,064 pounds, according to the Department of Commerce. The spot market was quiet but steady.

Digitalis—September importations totaled 8,588 pounds, which compared with 10,009 pounds landed in August, according to the Department of Commerce. Spot business was light last week.

Henbane—Importations last September totaled 34,744 pounds, against 28,833 pounds in August, according to the Department of

Market Trends

Prices Advanced

Drugs

Copaiba balsam, 2c. per lb.
Ergot, 30c. per lb.
Fenugreek seed, India, futures, ½c. per lb.
Ginger, Jamaica, No. 2, 1c. per lb.
No. 3, 1¼c. per lb.
Rhattoon, 1¼c. per lb.
Tolu balsam, 20c. per lb.

Other Articles

Anise, Mexican, ½c. per lb.
Cardamom, green, Alleppey, 5c. per lb.
Marjoram, Chilean, 1½c. per lb.
French, futures, 17c. per lb.
Pepper, black, distant futures, ½c. per lb.
Thyme, French, futures, 16c. per lb.

Prices Reduced

Drugs

Camphor, synthetic, technical, 3c. per lb.
USP, 6c. per lb.
Cubeb berries, 5c. per lb.
Fir balsam, Canada, $2 per gallon.
Oregon, 10c. per gal.
Papain, powdered, 50c. per lb.

Other Articles

Anise, Chinese, star, ½c. per lb.
Cassia, Yunnan, ¼c. per lb.
Mace, No. 1, Siauw, 5c. per lb.
East Indian, futures, 10c. per lb.
Mustard seed, Danish, yellow, 2c. per lb.
Dutch, ½c. per lb.
Oregano, Mexican, ½c. per lb.
Pepper, black, 1c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
246.0	247.5	255.2	295.8

(For Current Prices see Page 9)

Imports Detained by FDA

New York

Week Ended January 2

Belladonna herb, 4 bales: excess stems.
Cod oil, 155 drums: rancid.
Mace, 4 cases: filthy.
Nutmegs, 464 bags: filthy.
Pepper, black, 77 bags: filthy.
Pimento, 280 bags: filthy.

For Late Market Developments, See Page 4

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Vade Mecum

THE PRESIDENTS

John Tyler, 10th President, died Jan. 17, 1862, of liver trouble, in Richmond, Va., 72 years old. An Episcopalian. Tall, thin, clean shaven. Roman nose and high, receding forehead. Blue eyes. Soft, melodious voice. Virginia member, Confederate Congress, but died before it met.

Rutherford B. Hayes, 19th President, died Jan. 17, 1893, at Fremont, O., 71 years old. U. S. congressman, 1865-67; elected Ohio Governor, 1867 and 1875. Republican presidential candidate, 1876. Seated by Electoral Commission vote following dispute on state votes.

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Commerce. Prices held steady despite limited consuming request.

Marjoram—Chilean material was sharply higher at 12c. to 12½c. per pound for spots and 11½c. to 12c. for futures. French material for later arrival was sensationally higher at 52c.

Oregano—Mexican herb was fractionally lower at 15½c. to 16c. per pound. Arrival of 445 bags from Vera Cruz was reported.

Patchouli—Distilling operations should rise considerably here now that considerable quantities of leaves are arriving. The latest importation was 100 bags from Mombassa.

Senna—The market was steady in undertone and active within moderate limits so far as spot trade was concerned. September importations ran to 34,647 pounds, comparing with 85,001 pounds in August.

Thyme—Cables showed an overwhelming advance in shipment quotations on French material. The to-arrive position was 42c. per pound.

Miscellaneous

Ergot—Cheaper spot lots of this material appeared to have been moved into consumption. The market was rather prompt to reflect the higher replacement costs cabled from the source and quotations late last week were higher on the basis of $1.20 to $1.25 per pound and the tendency seemed to be to make the outside figure minimum. In the month of September, importations totaled 5,600 pounds, which compared with the 1,120 pounds arrived in August, according to figures supplied by the Department of Commerce.

Kola Nuts—September figures on arrivals were large; the total was 134,738 pounds, comparing with August at 74,419 pounds. Routine trading and steady replacement cost held spot quotations stable last week.

Nux Vomica—Trade estimates place the all-India 1946-47 crop at 2,800 long tons. The Madras consular district accounts for 1,800 tons and the Calcutta, 1,000 tons.

Papain—The market turned easier and lower last week, sales being reported at $5.50 to $6.50 per pound, depending on seller and quality. Arrivals were 30 cases from Mombassa and 81 cases from Colombo. September imports were 37,186 pounds, in comparison with 17,686 pounds in August.

Roots

Ipecac—The market was steady in price and fair selling took place. September arrivals amounted to 2,944 pounds, against 3,255 pounds in August, says the Department of Commerce.

Jalap—More inquiry brought some gain in sales at firmer prices. September importations were nil. In August, 5,003 pounds arrived, by Department of Commerce reports.

Licorice—September imports rose 3,048,202 pounds over those in August, according to the Department of Commerce data. The September total was 6,980,056 pounds. August, 3, 931,854 pounds.

Rhubarb—September imports dropped away sharply from those in August. September, 2,240 pounds. August, 11,700 pounds. No price developments last week but competition remained keen.

Sarsaparilla—Trade was light and irregular in most varieties. Prices remained fairly steady under limited competition. September importations totaled 5,648 pounds, comparing with 15,798 pounds in August, by Department of Commerce figuring.

Seeds

Anise—Argentine and Cyprian seeds steady under light call. Star from China was reduced to the basis of 14½c. to 15c. per pound. Little Mexican was available and the market was nominal at 25½c.

Cardamon—Bold bleached material in future arrival position was offered firm at $1.72 per pound. No change in spot quotes. Decorticated from Guatemala unsettled at 96c. Green Alleppey was higher at $1.15 to $1.20 per pound.

Celery—Generally steady on spot but in jobbing request so far as seed from India was concerned. Prices ranged 23½c. to 24c. per pound. The outside figure was minimum in some quarters.

Fenugreek—Indian seed was a fraction higher on spot, standing at 9½c. to 10c. per pound. The Department of Commerce says none arrived from anywhere in September. August arrivals were 77,518 pounds.

Mustard—Export interest low. Fair demand from domestic grinders. Dutch yellow on spot was shaded to 16c. to 16½c. per pound. The same quotations were also established on Danish.

Spices

Cassia—China buds for shipment were offered on the basis of 21c. per pound. Yunnan was fractionally lower at 13¼c. to 13¾c. per pound. Saigon about steady at all points. Few cables received.

Clove—Steadier for the most part. Price shifting failed to develop last week, sellers taking a well maintained position on prices regardless of the currently jobbing character of request.

Ginger—Jamaica No. 2 root in future arrival position was higher at 17½c. to 18c. per pound, while the No. 3 was up substantially to 16½c. to 17c. Rhattoon was also on the rise, reaching 16c. to 16½c.

Mace—No. 1 Siauw was reduced to the basis of $1.35 to $1.40 per pound, and East India material in future arrival position was shaded substantially to $1.35 to $1.38 as to seller and quantity.

Pepper—Black pepper on spot eased back to 43c. to 44c. per pound. Nearby futures held at 42c. to 43c. but the more distant future arrival position was fractionally higher at 41½c. to 42c.

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Essential Oils, Other Aromatics

Essential oils and aromatic chemicals were in a steady position on the New York market last week. The weekly price index dropped only slightly from the previous period. The aromatics were entirely firm and only three of the essential oils showed price fluctuations. These were all downward but in no respect indicated a generally falling market.

Business was still going through the winter doldrums. The Christmas rush was long since past and the spring pickup had not set in. Supply houses reported that they were receiving inquiries in fairly encouraging numbers although final sales were not as high as it was hoped they might be. It was predicted by some that business would not get into high gear again for several weeks.

An executive in one of the largest New York houses said he felt that volume sales would not be as high as they had been for some time yet, although he predicted that prices generally would hold. The time of price slashing, he went on, had passed and it would probably not return. Another leader in the trade agreed with the latter opinion but was emphatic in his prediction of larger sales.

The supply situation was generally fair, with few acute shortages reported. Imports received in New York during the week were exceptionally high, but a large part of that was accountable to the recent snow storm which had held up unloading.

It was believed that most inventories were low and that although buyers would replace them they would probably be a little careful as to their purchases, hoping to get the best buys and not to take on too much goods at a time. Many buyers had been overstocked, and now were figuring their inventories the other way, especially since goods had become more readily available.

Market Trends

Prices Advanced

None

Prices Reduced

Lavender flower oil, French, 38-42% ester, 50c. per lb.
Lime oil, distilled, Mexican, 5c. per lb.
Savin oil, 75c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
150.4	151.1	151.7	222.4

(For Current Prices see Page 9)

Essential Oils

Bergamot—Following a previous tendency to fluctuate as to price, the natural Italian oil last week was in a firm position on the market in New York and continued to be quoted at $5 to $6. Demand was said to be none too great, although supplies were ample.

Birchtar—The crude oil remained unchanged as to price last week, still being quoted at 95c. to $1.76, and the rectified was still reported as out of stock. The only item of interest wa the arrival in New York of two drums from Stockholm.

Cananga—This oil was still in a quiet position on the New York market last week. Quotations ranged from $6 to $9.10 for the native and $9.35 to $12.60 for the rectified. Five drums of the oil reached New York from Batavia, but otherwise the market was without feature.

Cassia—The price range of $2.40 to $3.75 remained unchanged for the U.S.P. last week. The average sales were being made for a little more than the inside figure, however. Demand was not especially heavy and while stocks were not at high levels, there was enough of the oil available to satisfy normal ordering.

Cinnamon—The bark, leaf and Seychelle oils last week showed no change in price from the previous listing, and the only item of interest was the arrival in New York of 5 drums of the leaf oil from London. The bark was being quoted at $52.50 to $62; the leaf, from Ceylon, was still listed at $1.50 on the inside with no figures available for the outside and the Seychelle was listed at $1.20 on the inside. There were no outside figures.

Citronella—Rumors that prices of this oil might be expected to fluctuate were still only rumors last week and both the Ceylon and Java oils remained in a firm position on the New York market. However, how long this condition would prevail could not be determined. The Ceylon was listed at 75c. to $2.75. The inside figure was regarded as fairly low and most of the sales were being made somewhat above that. Demand was reported to be limited although supplies were ample. The Java oil was being quoted at $1.25 to $4.75. The outside figure was quite high, however, and not much of the oil was being sold for as much as that. Supplies were not what they were two or three months back, although they were adequate to satisfy most normal ordering. Demand was spotty.

Clove—The U.S.P. oil was reported to be in only fair demand on the New York market last week. Supplies were somewhat limited, but adequate to satisfy most ordinary demands. The price range remained unchanged at $1.30 to $1.70. The lower figure was a bit on the conservative side, however, and the average selling price was reported to be nearer $1.40.

Dillseed—This oil was hard to find last week and some of the New York houses reported that they had no stock of it. The price range was unaffected, however, and the oil continued to be quoted at $6 to $7 a pound.

Dillweed—There was still very little of this oil available in New York last week, and consumers who had seen the situation coming and laid in heavy stocks were pleased at their foresight. It was said that most heavy buyers had already covered their needs and the business that was being done in the oil now was only in jobbing lots. It was predicted that those who need large quantities of the oil would not find it available and would probably have to use substitutes since there can be no new supplies until late next summer.

Geranium—Total exports of this oil from the Island of Reunion during the first eight months of 1947 amounted to 24,000 kilograms, valued at 40,114,000 francs, according to a report just received from the American Consulate at Tananarive, Madagascar. The chief destinations of the oil were as follows:—France, 16,400 kilograms, valued at 26,517,000 francs; Madagascar, 1,500 kilograms, valued at 2,792,000 francs; England, 1,000 kilograms, valued at 1,642,000 francs, and the United States, 5,100 kilograms, valued at 9,163,000 francs. On the New York market the Algerian continued to be quoted at $15.25 to $21, with $16 about the average selling price. Supply and demand were said to be in a reasonably good balance. The Bourbon oil was unchanged at $11.50 to $14.50, although the inside figure was a bit on the low side and the average price at which the oil was being sold was probably somewhere in the neighborhood of $12.50. Supply and demand were both reported to be good. There were still no stocks of the Russian oil available.

Juniper—Two cans of this oil arrived in New York from Antwerp last week but otherwise the market was without particular feature. The berry oil, domestic, was still being quoted at $6.35 to $12.50, while the imported U.S.P. showed no change from the previous listing of $7.50 to $12.

Lavender Flower—The French, 38-42% ester dropped in price from $7 to $6.25 on the inside of the range last week. Suppliers, however, were not concerned by the drop and considered this only normal fluctuation. The outside of the range remained unchanged at $10.15. Demand was at good levels, although some suppliers reported that there was not too much of the oil available.

Lemon—Three drums of this oil arrived in New York last week from Vera Cruz, but otherwise the market was without particular feature. The U.S.P. California was still being quoted at $3.10 to $3.60. The Messina was listed at $3.50 to $4.05 and the terpeneless at $40 to $50.

Lemongrass—The price range at $1.45 to $2.30 remained unchanged for this product during the period under review. The product had been fluctuating for some time and the average selling price last week was a bit above the inside figure, at about $1.50 or better. Stocks on hand in the New York supply houses were said to be ample for normal ordering but not especially abundant. In recent months some suppliers had held off on replenishing stocks of the item because of its tendency to fluctuate. Three drums of the oil reached New York last week from Kingston, Jamaica.

Lime—The distilled Mexican oil last week came down in price by 5c. a pound on the inside of the range to establish a new low price of $3.75. The outside remained unchanged at $5.15. Supplies were said to be ample and it was expected that demand for the oil would increase shortly. During the week 14 cases and two drums of the oil came into New York.

Orange—The outside price of the Messina oil last week rose from $5.50 to $6.25 on

For Late Market Developments, See Page 4

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the New York market but the inside figure of $4.50 remained unchanged. It was a bit difficult, however, to determine average prices because prices customarily fluctuate a great deal depending on the shipper and brand. The oil was not in very heavy demand because it was priced so much higher than the various domestic types. Supply was correspondingly small, although there was no reported shortage. The other orange oils remained firm as to price. The sweet, distilled, was selling at 80c. to $1.25. The expressed, U.S.P., Brazilian was listed at $1.40 to $1.95 and the California at $1.70 to $2.10. The Florida was listed at $1.40 to $1.85, while the West Indian was $2.25 to $3.75. The sesquiterpeneless was priced at $80 to $135.

Patchouli—Five cases of this oil reached the United States from Singapore during the period under review but otherwise the market was without particular feature. The oil was priced at $11.50 to $45, with the wide range accounted for by the various degrees of quality and origin.

Petitgrain—This oil, from Paraguay, was unchanged as to price on the market in New York last week. It was still listed at $3.15 to $4.30. During the week one drum arrived from Kingston, Jamaica, and five drums came into New York from Buenos Aires.

Rosemary—Both the Spanish, technical, and the U.S.P. were unchanged as to price during the period under review. The Spanish was quoted at 90c. to $1.50 and the U.S.P. at $1.15 to $1.60. Eleven drums of the Spanish oil reached New York last week from Barcelona, but otherwise the market was without particular feature.

Sage—There were no price changes for either the Dalmation or Spanish oils last week, and the only item of note was the arrival in New York of three drums from Barcelona.

Savin—This oil dropped in price from $5.75 to $5 a pound on the inside of the range last week on the market in New York, although the outside was unchanged at $13.50. The item continued to be in only small demand and although supplies were not heavy they were adequate to accomodate all normal ordering. The outside figure was considered quite high and not much of the oil was being sold for that great a price.

Tansy—Demand for this oil was not great last week and although there was not much of it on the market there was enough to satisfy demands. Some dealers reported that they were not stocking it. The price range remained unchanged at $9.75 to $14. The inside figure was quite low however, and the average selling price was something above that.

Thyme—Three drums of this oil reached New York last week from Barcelona, but otherwise the market was without particular feature.

Vetiver—Reunion Island exported a total of 6,400 kilograms of this oil, valued at 24,261,000 francs, throughout the January-August period of 1947, according to the recently released report of the American Consulate at Tananarive, Madagascar. France accounted for 5,800 kilograms, valued at 21,990,000 francs; England took 200 kilograms, valued at 699,000 francs and the United States imported 400 kilograms, valued at 1,572,000 francs. Both the Bourbon and Haitian oils were in a quiet position on the New York market last week. The Bourbon was quoted at $30 to $38, with both supply and demand said to be fair. The Haitian was listed at $27 to $33 and was in a similar position as to supply and demand.

Wormwood—The range of $8.75 to $10.50 was without change for this oil in New York last week, with $13.50 representing the average price for which the oil was being sold. Supplies were said to be about fair and demand none too great. According to word received from a large producer and distiller in Michigan, the outlook for the 1948 crop is not as good as the crop of 1947. It was reported that a considerable acreage was lost as a result of the extreme hot and dry weather at harvest time. The damage was expected to have a considerable effect on the future market for the oil because the part of Michigan from which the report came is the main producing area.

Ylang Ylang—Exports of this oil from the Island of Reunion during the first eight months of 1947 totaled 500 kilograms, valued at 669,000 francs, according to the American Consulate at Tananarive, Madagascar. All shipments went to France. Prices on the various type oils were unchanged on the New York market last week.

Aromatic Chemicals

Amyl Salicylate—This item was reported selling well on the New York market last week, with some suppliers reporting they were making it as fast as they could for the soap and perfume trade. The price range was unchanged at 77c. to 90c. a pound.

Benzyl Acetate—This product was in good demand last week, with some manufacturers reporting that they were working hard to keep up with the requests for it. The price range of 60c. to $1 was reported unchanged.

Benzyl Alcohol—The supply of this product was reported to be satisfactory although demand was only about fair during the period under review. The price range was 68c. to 88c., which represented no change from the last listing.

Heliotropine—The price range for the crystals ranged from $3.25 to $4 on the New York market last week. Demand was steady and supplies were ample.

Musk—There was no change in the tight supply position for the ambrette last week but the price range still held firm at $8 to $14.25. The ketone was in good supply and remained at $4.60 to $5.20 in price. It was reported to be selling well. The xylol also was in good supply. It was selling at $1.80 to $2, while the technical was listed at $1.10 to $1.20. The natural, Tonquin, grains, was unchanged at $38 to $55, and in pods and caddies it was $26 to $40.

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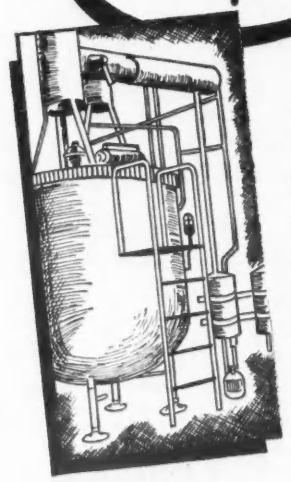

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Gillette Safety Razor Buys Toni Company

The Toni Company, cosmetics manufacturer, St. Paul, Minn., has been sold to the Gillette Safety Razor Company, Boston. The sale is not expected to affect operations in the St. Paul offices and plant, and there are no contemplated changes in personnel.

J. P. Spang jr., president of Gillette, said the purchase price of the Toni Company's stock was set at $8,000,000 plus the true net worth of the company on December 31, 1947, estimated at more than $4,000,000. In addition, Gillette agreed that when Toni's earnings under Gillette ownership shall have reached $8,000,000, the sellers will be paid additional sums equal to 50 percent of Toni's earnings after taxes to a total of $8,000,000.

Dodge & Olcott Opens San Francisco Office

Dodge & Olcott, Inc., essential oils and aromatic chemicals, New York, has opened a San Francisco office at 564 Market street. The office, managed by C. H. Bryson, is headquarters for sales in Northern California, Oregon, Washington and British Columbia.

The company's New York plant recently won an award of merit in safety, presented by the Greater New York Safety Council, for minimum loss of man hours as a result of accident. C. R. Morris is plant superintendent.

Sinclair Oil Corp. Borrows $50,000,000

Sinclair Oil Corporation, New York, has sold $50,000,000 of twenty-five-year 2⅞ percent sinking fund debentures to a group of insurance companies. The loan, which matures December 1, 1972, will be used to complete the company's expansion and modernization program and to provide funds for future needs.

Socony-Vacuum Advances Whatley

Socony-Vacuum Oil Company has appointed Earl Whatley manager of the product purchase division of its gasoline and fuel oil department, to succeed C. B. McCollough, who retired on December 31. Mr. Whatley was formerly associated with the company's "Lubrite" division.

Colonial Beacon Oil Assets Transferred

The assets and business of the Colonial Beacon Oil Company have been transferred to the Standard Oil Company of New Jersey, a subsidiary of the Standard Oil Company (New Jersey), which for many years has owned all the Colonial stock. There has been on change in management.

Regime Counselors Formed

Regime Counselors has been formed in Chicago by Waldo Zimmerman to manufacture a new line of hair and scalp preparations. Mr. Zimmerman resigned as vice-president in charge of sales and advertising of Van Patten Pharmaceutical Company to form the new organization.

Shell Oil Conducts School

Shell Oil Company, New York, is conducting an industrial school for members of its marketing staff at the Berkeley Carteret hotel, Asbury Park, N. J. Specialists from various branches of the staff are being given a broad education in the practical and technical aspects involved in the application and service requirements for industrial lubricants, solvents and petroleum by-products, with special emphasis on practical performance.

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Petroleum Derivatives

In the wake of recent boosts in petroleum toluol and xylol, quotations on partial aromatics were advanced during the week. At the same time, stabilization of other petroleum derivatives at higher levels was completed in most areas, as holdout producers came into line with competitive listings.

The ½c. per gallon price differential on cleaners' naphtha, mineral spirits, rubber solvents, stoddard solvent and V. M. & P. naphtha on the East Coast was made up last week, as a leading marketer in that area added another ½c. to previous 1c. per gallon increases to match the 1½c. hikes of competitors. This producer, who formerly was 1c. per gallon behind other lacquer diluent quotations in the East, upped this material an additional 1c. to effect a uniformity of listings in that area. Group 3 prices on aliphatics, meanwhile, continued firm for the most part at previously-effected higher price levels.

Aromatics continued stable, following recent boosts on petroleum toluol and xylol, but the supply was said to be growing increasingly short. Reflecting these increases in petroleum-source aromatics, producers of partial aromatics effected increases of 3½c. to 7c. per gallon.

Lighter fractions were without feature during the week, as supplies of butane and propane continued short with no indication of any early easement. Paraffin stocks were still said to be short, while demand continued strong. Petrolatums were reported in good supply with a good demand. Price-wise, petrolatums and waxes were firm.

The American Petroleum Institute reported last week that according to a survey of leading producers total demand for petroleum products in the United States during 1948 will approximate 260,000,000 gallons a day, compared with 246,000,000 gallons daily last year. The 1947 daily consumption rate was 30 percent above the 1941 figure. Gasoline demand this year is placed at 102,000,000 gallons daily, up 5.9 percent over the 1947 level; kerosene, 13,000,000 gallons, up 7.3 percent; distillate fuels, 41,000,000 gallons, a 10 percent rise; residual fuels, 62,000,000 gallons, an increase of 2.2 percent, and all other oils 42,000,000 gallons, or 5 percent over 1947.

Solvents and Diluents

Cleaners' Naphtha—The price of this material last week stabilized at 14c. per gallon, tanks, f.o.b. New Jersey and New York refineries, as the lone East Coast holdout upped his quotation ½c. per gallon to match recent 1½c. per gallon boosts by competitors. The group 3 listing during the week was posted at 11⅜c. to 11⅝c. per gallon, f.o.b. refineries. Demand was still said to be holding at previous levels, while the general supply situation was generally unchanged.

Protective Coatings Solvents — Reports during the week indicated that the supply situation of aromatic solvents was fast becoming critical, as some major producers predicted a production lag late this month. As of last week, however, most regular customers continued to received their normal shipments on time. Price-wise, petroleum toluol and xylol were both stable at 30c. per gallon, tankcars, delivered, following recent 7c. and 3½c. per gallon price increases, respectively. Toluol from all sources, however, continued to sell at a range of 23c. to 30c. per gallon, tanks, delivered, while xylol from all sources was quoted at 25c. to 30c. per gallon, same basis.

Major producers of partial aromatics, at the same time, effected increases of 3½c. to 7c. per gallon, reflecting recent boosts in petroleum toluol and xylol.

With the 1c. advance in lacquer diluent by a leading Eastern marketer, the price of this material was established at 16c. per gallon, tanks, f.o.b. New Jersey and New York refineries. The latest advance matches recent 2c. per gallon increases by other leading producers in the East. In group 3, the benzol-type diluent was quoted at 12⅛c. to 12 11/20c. per gallon, tanks, refinery, while the toluol-type product commanded 11⅛c. to 12c. per gallon.

A ½c. per gallon boost by a leading East Coast producer of mineral spirits stabilized the price of this material at 14c. per gallon, tanks, f.o.b. New Jersey and New York refineries. This move followed recent 1½c. per gallon increases by other leaders in that area. In group 3, the solvent was listed at 10⅜c. to 10⅝c. per gallon, tankcars, refineries, during the week.

Stoddard solvent quotations in tankcars on the East Coast, at the same time, levelled off at 14c. per gallon, f.o.b. New Jersey and New York refineries, as the lone holdout to the recent 1½c. per gallon increase added an additional ½c. to his quotations to match higher prices of competitors. Group 3 quotations continued firm at 10⅞c. to 11⅜c. per gallon, tanks, refinery.

V. M. & P. naphtha tankcar quotations on the East Coast also stabilized at the higher quotation, as a leading marketer in that area upped his price ½c. per gallon to match recent 1½c. per gallon increases by competitors. Quoted f.o.b. New Jersey and New York refineries, this solvent was listed at 15c. per gallon. In group 3, tankcar quotations were priced at 11⅜c. to 11⅝c. per gallon, f.o.b. refineries.

Rubber Solvents—The East Coast price of these solvents last week was quoted at 15c. per gallon, tanks, f.o.b. New Jersey and New York refineries. Stabilization of this section came with an additional ½c. per gallon advance by a leading marketer in that area, matching previous 1½c. overall boosts by competitors. In group 3, tankcar quotations ranged between 10⅞c. and 11⅜c. per gallon, refineries.

Market Trends

Prices Advanced

Partial aromatics, 3½c. to 7c. per gal.

Prices Reduced

None

(For Current Prices see Page 9)

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended December 27 totaled 222,777,000 barrels, according to the Bureau of Mines. Compared with the total of 222,921,000 barrels for the preceding week, this represents a decrease of 144,000 barrels, comprising a decrease of 491,000 barrels in stocks of domestic crude and an increase of 347,000 barrels in stocks of foreign crude. Heavy crude-oil stocks in California, not included in the gasoline bearing stocks, totaled 5,707,000 barrels, a decrease of 184,000 barrels.

Lighter Fractions

Butane—Supplies of this material continued short during the week, as producers looked for further tightening of stocks as the winter season progresses. With the increasing government demands for aviation fuel and the incorporation of greater quantities of butane in commercial winter motor fuel, the prospects for some easing in this section before spring looked bleak. Meanwhile, demand was still very strong, as spot material in all sections was practically unavailable. The tankcar quotation on the industrial grade during the week in group 3 continued firm at 5½c. per gallon, with a 1 1/5c. per gallon advance due to take effect on February 15.

Heptane—The supply situation in this section was said to be better for this derivative than most other lighter fractions. Demand was described as normal and group 3 prices continued stable at 11¾c. to 12¾c. per gallon for tankcar lots of the 90-100 degree C. material and 10½c. to 11c. per gallon, tanks, for the 77-115 degree C. product.

Hexane—Good supply continued to prevail for this solvent during the week, as demand continued relatively active. Industrial hexane in group 3 at the same time retained previous price levels at 12½c. to 13½c. per gallon, tanks.

Pentane—The market condition of this material remained relatively unchanged during the week, as supplies were low and demand was active. Prices, at the same time, were firm for the industrial grade in group 3 at the following quotations:—Drums, carloads, 14c. to 17c. per gallon; less carlots, 16c. to 60c. per gallon, and tanks, 8c. to 11½c. per gallon.

Petrolatums and Waxes

Paraffin—Stocks continued severely short during the week, as suppliers were still unable to see any early alleviation of the current situation. Demand, at the same time, continued strong, while prices remained firm at previous levels.

Petrolatums—Stability characterized this section during the past week following the November decline of ¼c. to 1c. per pound in New York quotations of amber, extra amber, cream, yellow soft, lily, snow and white soft grades. Demand was described as good and supplies were on a par with those of previous weeks.

Miscellaneous

Crude Oil—Imported during the week were 322,016 barrels of crude petroleum from Cartagena, Las Piedras and Puerto La Cruz. Meanwhile, the Mexican government-owned monopoly, Pemex, announced during the week that 1947 production of oil would approximate 55,000,000 barrels, highest since the expropriation of private oil holdings in that country in March, 1938. Production in 1937, the last complete year of operation under foreign ownership, was 64,000,000 barrels. In 1938, the Mexican petroleum output dropped to 38,500,000 barrels, due mainly to the unsettled situation in the oil fields growing out of the expropriation.

For Late Market Developments, See Page 4

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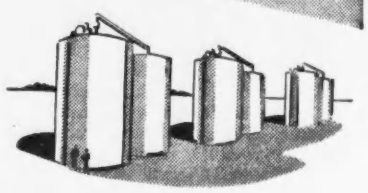

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Protective Coatings Materials

With protective coatings materials generally quiet, advances in casein and a number of linoleates dominated activity in the market during the week.

Quotations on earth colors continued firm, as they have been since the third quarter of last year. Producers reported that supplies were plentiful for all materials, with the exception of Spanish and Persian Gulf oxides. Stocks of synthetic iron oxides were also said to be in good supply, though there were disturbing reports that vast quantities of scrap iron were disappearing from the market. Should this condition continue for any length of time, it was pointed out in some quarters, a reversion to last year's shortages would develop almost overnight. For the time being, however, all demands were being fulfilled in volume and on prompt shipment. Buying interest was said to be good for the overall situation, spotty in a few minor grades.

Price-wise, no change in earth color quotations was expected for, at least, another three months. Some sources believed that present quotations might even hold good through the major part of the second quarter. As for the Spanish and Persian Gulf oxide situation, importers here said the transportation difficulties had cleared up on the former, but asking prices at the source had prevented any great buying in this country. Shipments of Persian Gulf have been few and far between and there was little to indicate during the week that there would be any early improvement in the situation.

Synthetic resins were stable, although producers of alkyds were reported to be keeping a watchful eye on developments in the phthalic anhydride market. Two major producers during the week advanced prices of the anhydride 2½c. and 2c. per pound, the former increase becoming effective January 1 and the latter boost to take effect on February 1. Other phthalic makers were expected to go along with these hikes, but not immediately. In the meantime, resins manufacturers stood fast.

Buying interest in natural gums was slow during the week following the yearend lull. What interest there was continued to be shown in Singapore No. 1 dammar gum, which was said to be on short rations. Elsewhere the market was quiet, as prices were firm.

No change in the market condition of lacquer materials occurred last week, although phthalate manufacturers were said to be keeping in close touch with the anhydride situation. Meanwhile, drying up of domestic casein stocks resulted in a 1c. per pound increase, as interest in the imported product continued brisk and prices on the latter were firm. Major producers of linoleates, at the same time, upped listings 1c. to 3¼c. per pound on a variety of compounds. Shellac was firm, with stocks low. Some importers believed that the currently inflated quotations on orange lacs would continue at least through the end of the first quarter. Stearates were stable, although tallow reversed its downward trend of recent weeks by advancing 4c. per pound and stearic acid jumped 3c.

Market Trends

Prices Advanced

Aluminum linoleate, 1c. per lb.
Casein, dom., acid-precip., 1c. per lb.
Cobalt linoleate, all grades, 2½c. per lb.
Lead linoleate, 1½c. per lb.
Manganese linoleate, liquid, 4.35% Mn, 3½c. per lb.
solid, 8.2% Mn, 2¾c. per lb.
Zinc linoleate, solid, 9.2% Zn, 2¾c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
182.2	182.2	182.2	170.8

(For Current Prices see Page 9)

Prime Pigments

Black, Bone—The Bureau of Census reported last week that total November production of this pigment amounted to 848 short tons, compared with 1,085 tons in October, 1,085 tons in September and 955 tons in November, 1946. November shipments totaled 1,043 short tons, opposed to 789 tons in October, 1,036 tons in September and 1,373 tons in November of 1946. Bone black stocks on hand at the close of November were listed at 1,180 short tons, against 1,375 tons on October, 1,079 tons in September and 1,625 tons in November, 1946. In the market, quotations on this pigment were firm during the week at higher levels following January 1 increases of ⅞c. to 1⅜c. per pound.

Black, Synthetic Iron Oxide—Quotations continued firm during the week at 9¾c. per pound, carloads, works, and 10c. per pound, l.c.l. Supplies were reported to be ample and demand was described as normal.

Blue, Ultramarine — Imports last week totaled 218 casks from Hull. Market-wise, this pigment stabilized at higher price levels following a January first 1c. per pound across-the-board increase. Supply and demand were unchanged from previous weeks.

Brown, Metallic—No change in the market condition of this pigment was noted during the period under review, with prices continuing firm at 2¾c. to 3c. per pound, carloads, works.

Brown, Sap Crystals—Stability featured this section as prices ranged from 12c. to 13c. per pound, works. Supplies were said to be good and demand was on a par with previous weeks.

Brown, Siennas—Prices continued steady during the week, as supplies of all grades were said to be readily available. Demand was reported good. Major suppliers indicated that quotations would probably remain firm through the first quarter, and possibly through most of the second. Imports during the week totaled 28 bags of earth sienna from Larnaca.

Brown, Synthetic Iron Oxide—There was no difficulty in obtaining stocks of this pigment, as producers reported ample supplies. Demand was reported good and prices held fast at previous levels. Quotations during the week for less-carlot quantities in bags ranged from 12c. to 12½c. per pound, works.

Brown, Umbers—No change in quotations has occurred in this section since the last part of the third quarter of 1947. Burnt American sienna last week ranged from 5c. to 5¼c. per pound; burnt Turkey-type pigment was quoted at 5½c. to 5½c. per pound; raw American at 5¼c. to 5½c. per pound, and raw Turkey, 5½c. to 5¾c. per pound. Supplies reported ability to fill orders in any quantity. Demand, at the same time, was said to be good. Imports totaled 36 bags of earth umber from Larnaca.

Brown, Vandyke—The market position of this earth color was stable during the week, as supply was reported free, demand was said to be relatively brisk and prices were firm at 10c. to 11c. per pound, barrels, works.

Copper Oxide—Quotations on this pigment ranged between 28c. and 30c. per pound for the black grade and 30c. to 32¼c. per pound for the red material. Supply and demand conditions were said to be on a par with previous weeks.

Red, Indian — The domestic grade continued firm at 10c. to 10¼c. per pound, as supplies were reported to be readily available on prompt shipment. Demand was said to be good.

Red, Iron Oxides—Scarcities continued to prevail for Spanish and Persian Gulf oxides, although synthetic iron oxide was available in good supply. Paint manufacturers, however, were reported to be unperturbed over this persisting shortage, since blends of synthetic and domestic iron oxides were said to be yielding results that compared favorably with imported oxides. In addition, pigment manufacturers were continuing production of synthetic blends, which apparently were adequately serving the needs of the industry. Persian Gulf was expected to continue scarce, judging from the single shipment received in this country during 1947. Spanish transportation difficulties were said to have improved, but exporters in that country were demanding too high a price for their product to arouse any considerable American buying interest. Quotations continued firm and demand was good. Current prices follow:—synthetic iron oxide, 10½c. to 10¾c. per pound; Persian Gulf, 6¾c. per pound, and Spanish oxide, 5¼c. to 6½c. per pound.

Red, Venetian—Good stocks continued to prevail for this pigment during the week, as demand was reported normal. Prices were stable and were expected to remain so through the first quarter and possibly through most of the second. Current quotations on the 15 percent to 40 percent grades range from 3 1/10c. to 4 4/10c. per pound, bags, works.

Red, Vermilion — Stability featured this section last week, with demand normal, supply good and prices firm at 22¼c. to 48c. per pound.

Yellow, Synthetic Iron Oxide—No change in the market condition of this pigment was noted during the period under review.

For Late Market Developments, See Page 4

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Quotations continued stable, with indication from suppliers that they would remain so, at least, through the end of March. Supplies were reported to be freely available, with all quantities obtainable on prompt shipment. Demand was said to be relatively good. The market quoted this material during the week at 8¼c. per pound, carloads, f.o.b. works, and 8½c. per pound, less-carload quantities, works.

Fillers and Extenders

Calcium Carbonate—Imported last week were 550 bags of precipitated chalk from Avonmouth, 1,600 bags of whiting from Hull and 100 tons of witherite from the same port of call. Market-wise, this section was without feature during the period under review.

China Clay—Imports during the week totaled 250 tons of ball clay from Avonmouth and 50 tons of blue clay from the same source. The market condition of this material showed no appreciable change last week, with demand, supply and price quotations all on a par with previous levels.

Magnesium Silicate—Some 200 bags of talc were imported from Bombay last week, as the condition of the market continued stable. Supply was still said to be short and consumers continued to exert considerable buying pressure on suppliers. The price structure was firm.

Synthetic Resins

This section was quiet during the week following readjustment of various resin schedules on January 1 both upward and downward. Major interest in alkyds centered about the announcements of increases by two phthalic anhydride producers. One leading maker of phthalic upped his quotations 2½c. per pound as of January 1, while another major supplier announced an increase of 2c. per pound to take effect on February 1. It was believed in some quarters that other phthalic anhydride manufacturers would go along with the new advances, but not immediately. Meanwhile, there was no indication of what resins manufacturers would do in the face of these increased materials costs. Meanwhile, supply and demand conditions remained on a par with those of previous weeks. Similarly, ester gums continued in good supply with no change in demand. Melamine resins stabilized last week at higher price levels following the recent 1c. per pound increase by a major producer. Phenolics were also firm at higher quotations following 1¼c. to 1½c. boosts. Terpenes remained stable in the wake of 2c. per pound declines, and urea-formaldehyde resins levelled off at higher prices following recent ½c. to 1c. per pound increases.

Natural Resins

Demand for natural gums during the week was reported to be quite slow, as interest continued to wane following the holiday lull in trading. Inquiries for Singapore No. 1 dammar gum, however, were still said to be growing, although quotations remained firm at 31c. to 32c. per pound for spot material. Stocks of No. 1 were not too readily available, but future shipments were expected to bring about an improvement in the supply situation. Some widening of the spread in prices of Batavia A E dammar gum was noted during the week, with quotations ranging from 25c. to 29c. per pound, as compared with 27c. to 29c. per pound formerly. Batavia E dammar continued stable at 18½c. to 20½c. per pound. Elsewhere in the market there was little activity, with trading quiet on Congo, Macassar and Philippine copals. Elemi was likewise slow and firm during the week at 27c. to 29c. per pound, while mastic continued to command $2.25 per pound. Quotations on yacca were unchanged at 6c. to 7c. per pound. Imported last week were 734 bags of Philippine copal gum from Manila.

Lacquer Materials

Dibutyl Phthalate — Producers of this material eyed 2c. and 2½c. per pound advances by two leading makers of the anhydride last week. Meanwhile prices continued firm, business remained brisk and supply was unchanged. Current quotations follow:—37¼c. to 38½c. per pound, carloads, drums; 38c. to 39c. per pound, less carloads, and 36c. to 37c. per pound, tanks.

Diethyl Phthalate—Quotations were firm during the week, although two major producers announced advances of 2c. and 2½c. per pound, respectively, for the anhydride. What action phthalate makers would take was not clear as of late last week. Meanwhile, current quotations continued at the following schedule:—31½c. to 33½c. per pound, carloads, drums; 32c. to 34c. per pound, l.c.l., and 30c. to 32c. per pound, tanks.

Dimethyl Phthalate—No change in the market condition of this material was noted during the period under review, despite uppings of phthalic anhydride of 2c. to 2½c. by two leading producers. Demand and supply were on a par with previous levels, and price continued firm at 24¾c. per pound, carloads; 25½c. per pound, less-carlot amounts and 23½c. per pound, tanks.

Miscellaneous Materials

Asbestos—No change in the market position of this material was noted during the period under review, as supply continued scarce for the long-fibered grades and relatively free for the short-fibered, off-colored materials. Demand was said to be strong, with major producers still channeling materials to regular contract customers. Following changes late last year, quotations were firm last week. Imported during the week were 6,240 bags of asbestos from Lourenco and Marques.

Casein—Continued drying up of domestic supplies boosted prices 1c. per pound for the acid-precipitated to a range of 33c. to 35c. per pound. Imported casein continued firm at 31½c. to 33½c. per pound, although buying was reported to be intense. Dealers in both the imported and domestic products believed that prices would mount, largely owing to the scarcity of skim milk, the raw

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material from which the domestic casein is manufactured. Meanwhile, the Bureau of Agricultural Economics reported that November production of domestic casein amounted to an estimated 865,000 pounds, a decline of 38 percent from the 1,392,000 pounds produced during the corresponding month in 1946 and a decrease of 5 percent from the five-year average. The seasonal decline from October to November was extremely sharp, down 51 percent in 1947 as against 26 percent for a similar period of the previous year and 31 percent for the five-year-average. October-November decline. Production for 1947 through November totaled 30,448,000 pounds, a gain of 92 percent over the 15,868,000 pounds produced during the same period in 1946 and 16 percent above the five-year average. Holdings of dry casein by manufacturers on November 30 were estimated at 1,775,000 pounds, a decrease of 675,000 pounds during the month. Stocks on hand at the close of November, 1946, totaled 2,100,000 pounds. Imports last week totaled 10,283 bags from Buenos Aires.

Glue—With this section continuing at previous levels during the week, supply, demand and prices all remaining on a par with previous levels, imports last week totaled 108 bales of gluestock from Cebu and 809 bags of ossein from Antwerp. The Bureau of Census, at the same time, reported total November glue production at 13,636,188 pounds, compared with 14,666,095 pounds in October and 12,213,632 pounds in November, 1946. Shipments dropped to 12,588,514 pounds in November from 14,056,290 pounds during the previous month, but were up over the 11,626,089 pounds shipped in November, 1946. Glue stocks on November 30 totaled 9,509,275 pounds, compared with the 8,391,628 pounds on hand at the close of October and the 10,633,016 pounds recorded on November 30, 1946.

Graphite—No appreciable change in this section was noted during the period under review. Imports last week were registered at 1,500 bags of graphite from Colombo.

Linoleates—Major producers upped quotations 1c. to 3¼c. per pound. The listing on solid aluminum linoleate rose 1c. to 52¼c. per pound, while all grades of the cobalt compound were boosted 2½c. per pound. The new schedule quotes the 6 percent cobalt linoleate paste at 60¾c. per pound; 8 percent solid grade, 65½c., and 8½ percent solid, 69½c. per pound. The lead product went up 1½c. to 43½c. per pound, while manganese linoleate was increased 3¼c. to 44¼c. per pound for the liquid 4.35 percent grade and 2¾c. to 45¾c. per pound for the solid 8.2 percent material. Zinc linoleate, at the same time, was also advanced 2¾c. to 56c. per pound.

Stearates—The caution of stearate producers in withholding revision of price schedules was rewarded last week when tallow reversed its downward trend by rising 4c. per pound and stearic acid jumped 3c. Stearates producers, meanwhile, believed that current schedules would stand, at least, until some stabilization of the tallow and stearic acid markets was achieved.

Naval Stores

Gum turpentine on the Savannah market declined 2c. per gallon during the week to 62c., as sales were light following the holiday lull. At the same time, a variety of changes developed last week in gum rosin quotations. Decreases of 14c. per hundred pounds were posted for grades G, H and I, as these materials closed at $8.81. Also down were grades K and M, off 20c. per hundredweight to close at $8.81. Grade N dropped 5c., while WG, WW and X posted 5c. per hundred pounds advances. Closing quotations were $9, $9.35, $9.40 and $9.40, respectively. Unchanged during the week were grades B, D, E and F at $6.50, $7.75, $8 and $8.80, respectively.

Savannah, Jan. 9.—Following is a record of the rosin market for the week:—

	Price per unit—Low of range quoted				
	Mon.	Tues.	Wed.	Thurs.	Fri.
B	$6.50	$6.50	$6.50	$6.50	$6.50
D	7.75	7.75	7.75	7.75	7.75
E	8.00	8.00	8.00	8.00	8.00
F	8.80	8.80	8.80	8.80	8.80
G	8.95	8.95	8.95	8.95	8.81
H	8.95	8.95	8.95	8.95	8.81
I	8.95	8.95	8.95	8.95	8.81
K	9.01	8.95	8.95	8.95	8.81
M	9.01	8.95	8.95	8.95	8.81
N	9.15	9.10	9.10	9.10	9.00
WG	9.30	9.35	9.35	9.35	9.35
WW	9.35	9.40	9.40	9.40	9.40
X	9.35	9.40	9.40	9.40	9.40
	Barrels				
Sales	100	400	700	...	200
Receipts	283	240	308	59	110
Shipments	163	...	105	...	41
Stocks	10,005	10,425	10,628	10,787	10,856

Savannah, Jan. 9.—Following is a record of the turpentine market for the week:—

	Bulk, gallons—Cents	Sales	Barrels—Receipts	Shipments	On hand
Monday	64	....	...	...	9,247
Tuesday	63	100	177	95	9,329
Wednesday	63	....	2,678	2,618	9,389
Thursday	63	....	2	20	9,362
Friday	62	100	287	53	9,596

Buffalo Paint Group To Meet January 20

The Buffalo Paint, Varnish and Lacquer Association will meet at the Sheraton hotel, Buffalo, on January 20 at 6:30 p.m. Guest speaker for the meeting will be Charles J. O'Connor, president of Reichhold Chemicals, Inc., Detroit.

Trade Briefs

Arco Company, Cleveland, has published a twelve-page illustrated bulletin, "Lasting Protection for Metal Surface," which describes a recent development for protecting outdoor structures against weathering. Free copies may be obtained from the company at 7301 Bessemer avenue, Cleveland 4, or 745 East Fifty-ninth street, Los Angeles.

The Glidden Company has placed a contract with Blaw-Knox Company for equipment and engineering to be used in modernizing its Cleveland plant. Blaw-Knox will supply and install new resin production equipment, design a new structure to house the equipment and provide engineering for the remodeling of existing structures.

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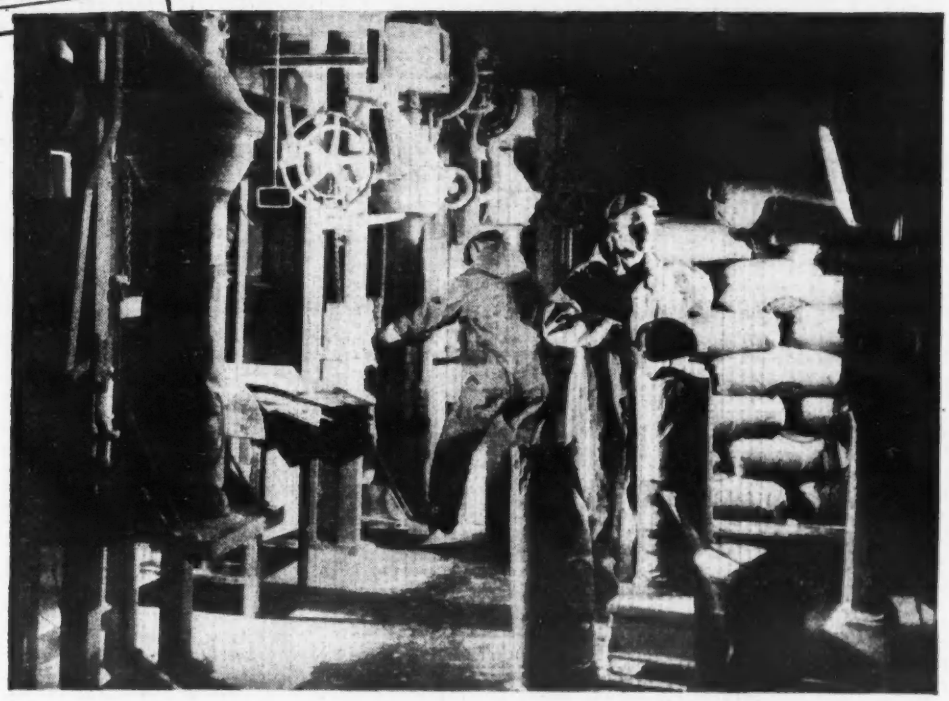

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N.Y. Paint Club Holds First Meeting of 1948

The first 1948 luncheon meeting of the New York Paint, Varnish and Lacquer Association was held in the grand ballroom of the Pennsylvania hotel on January 8. Chief speaker was Leo Cherne, executive secretary of the Research Institute of America, who gave an informal talk on his prediction of domestic and international events during the current year.

The main speech was followed by a committee report on a contemplated educational plan to further employer-employee relations in the industry. Gustave Klinkenstein, president of the New York association, and affiliated with Maas and Waldstein Company, Newark, N. J., presided.

Rubber Asphalt Company Buys N. Mex. Mica Lands

The Rubber Asphalt Company, Los Angeles, Calif., has purchased a group of mica claims in the Peteca mining district of New Mexico. The company plans the erection of a mill and flotation plant to grind dry and wet mica, and has named Joseph Thompson supervisor of the plant.

National Lead Plans Addition To Los Angeles Laboratory

National Lead Company is planning a two-story addition to the laboratory and office building of its baroid sales division in Los Angeles. The addition to the building, which contains 35,000 square feet of floor space, is expected to cost approximately $200,000.

O'Sullivan Rubber Names Childress Industrial Plastics Sales Manager

The O'Sullivan Rubber Corporation, Winchester, Va., has appointed V. R. Childress manager of industrial plastics sales. Mr. Childress was formerly associated with the B. F. Goodrich Chemical Company.

Marder Leaves Astor-Ramel

The Astor-Ramel Manufacturing Company has announced that effective January 1, Leo Marder is no longer associated with it. Mr. Marder's successor has not been named by the company.

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Mexican Tariff Duty Revisions Reported by U.S.

OPD Washington Bureau

Chemicals and allied products affected by the action of Mexico in converting the specific rates of duty on 132 tariff items in Schedule I of the United States Mexican Provisional Agreement to compound rates at levels equivalent to those prevailing in 1942, and in converting the rates on twelve items to levels higher than those prevailing in 1942, were revealed last week by the Department of Commerce.

Items restored to 1942 levels are as follows:—

	Compound rates: Specific (in pesos)	Compound rates: Ad valorem (percentage)
1.22.13—milk in powder or pastilles, weighing with the immediate container up to five kilograms, legal kilogram	.05	10
1.22.14—milk in powder or pastilles, weighing with the immediate container more than five kilograms, legal kilogram	.15	10
1.23.20—stearic acid (in cakes), gross kilogram	.25	15
1.23.33—animal fats, hydrogenated, gross kilogram	.25	25
1.23.40—hog lard in tankcars and tankers, net kilogram	.10	10
1.23.41—hog lard in other containers, gross kilogram	.20	20
2.31.22—cottonseed, gross kilogram	.06	5
2.31.32—hops, legal kilogram	.09	20
2.41.00—cocoabutter, legal kilogram	.05	10
3.01.30—lubricating greases, weighing with the immediate container up to one kilogram, gross kilogram	.05	20
3.01.31—lubricating greases, weighing with the immediate container more than one kilogram but not more than five kilograms, gross kilogram	.03	10
3.01.32—lubricating greases weighing with the immediate container more than five kilograms, gross kilogram	.04	10
3.01.40—mineral wax and paraffin, gross kilogram	.06	15
3.21.09—refractory clay or earth, not specified, 100 gross kilograms	4.0	5
3.23.02—sulphur, 100 gross kilograms	6.8	5
6.03.93—mixtures of ethers and alcohols used in the manufacture of paints or varnishes, legal kilogram	.05	5
6.04.00—fruit essences or synthetic products imitating them, without alcohol, legal kilogram	4.45	15
6.04.14—extracts, not specified, for making soft drinks, legal kilogram	1.5	25
6.04.15—extracts, not specified, for making wines and liquors, legal kilogram	.65	5
6.12.71—bicarbonates of potassium and sodium weighing with the immediate container more than five kilograms, not specified, gross kilogram	.01	10
6.31.21—medicinal granules, tablets, perles, pastilles and pills, legal kilogram	.55	3
6.31.90—drugs and pharmaceutical specialties of any kind, not specified, legal kilogram	.50	5
6.61.01—varnishes, polishes, paints and pigments for shoes and skins, with a base of neither alcohol nor ether, included in classifications 601 and 603 of the Mexican General Tariff of Imports, weighing with the immediate container more than five kilograms, gross kilogram	.20	15
6.61.06—prepared floor wax, weighing with the immediate container up to five kilograms, gross kilogram	.30	20
6.61.07—prepared floor wax, weighing with the immediate container more than five kilograms, gross kilogram	.10	25

Chemicals and allied products which were raised to levels above that of 1942 are as follows:—

	Compound rates: Specific (in pesos)	Compound rates: Ad valorem (percentage)
6.61.21—varnishes or paints prepared with a base of alcohol or ether, included in classification 601 and 603 of the Mexican General Tariff of Imports, in any container, gross kilogram	.60	15
6.61.28—prepared varnishes and paints, weighing with the immediate container up to five kilograms, not specified, gross kilogram	.60	15
6.61.29—prepared varnishes and paints, weighing with the immediate container more than five kilograms, not specified, gross kilogram	.40	15

The department added that this information was received by telephone from the American Embassy in Mexico City and warned that inaccuracies may therefore appear because of the means of transmittal.

Holiday Mementoes Received

With grateful appreciation to its friends, OPD hereby acknowledges the receipt of holiday greetings and expression of good will from the following:—

Baird & McGuire, Inc., Holbrook, Mass.
Bridge Chemical Company, Chicago.
Carlomagno Hermanos, S. R., Ltd., Buenos Aires, Argentina.
Carus Chemical Company, La Salle, Ill.
China Vegetable Oil Corporation, Hong Kong.
Cross Sielare & Sons, Inc., New York.
United States Potash Company, New York.

Pitts. Paint Technicians View Developments in Drying Oils

The Pittsburgh Paint and Varnish Production Club played host to the Pittsburgh Paint, Varnish and Lacquer Association at a meeting held in the Fort Pitt hotel on January 5.

Guest speaker was Dr. Alexander Schwarcman, director of research for the Spencer Kellogg Company, Buffalo, N. Y., who discussed the contribution made by oil chemists and scientists in the field of drying oils. He stressed the importance of these new developments and gave the opinion that at least twenty-five years research was accomplished within a period of four or five years during the war.

Globe Paint Co. Sold

Interest in the Globe Paint Company, Brooklyn, N. Y., has been sold by the Feinberg brothers to Stuart K. Sherman. Louis and Hyman Feinberg will join their brother, Benjamin, in the Fine Art Wallpaper Company, Brooklyn.

NEW PROFITS - - - - - -

THE BAKELITE CORPORATION developed Wash Primer WP-1 for outstanding, adhesive and anti-corrosive treatment of metal suitable for overcoating with conventional types of finishes, both decorative and protective.

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6 DRYING ACTION
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9 FILM STRENGTH
10 FLEXIBILITY
11 TINT RETENTION
12 ADHESION
13 GLOSS
14 WEATHER RESISTANCE

Here's a tip the "Dutch Boy" has never tried to keep under his cap: Basic Carbonate White Lead does 14 things to make paint better.

Check the list above and see all the paint-making properties you get from this one pigment.

And remember, White Lead not only offers all 14 of these qualities, but imparts them, in well-balanced proportion, to paints.

White Lead's unique ability to form lead "soaps" accounts for many of these advantages. The "soap" story at the right tells why.

* * *

Our technical staff is at your call to help you fit "Dutch Boy" Basic Carbonate White Leads into your formulations. You get recommendations backed up by broad experience and 30 years of continuous paint-fence testing... *the longest project of its kind on record.*

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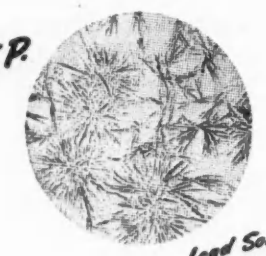

Lead Soaps Mean Fine Paint

When White Lead combines with oil, a distinctive type of "soap" is formed. As shown in the photomicrograph above, these soaps are of fibrous structure consisting of multiple projections radiating from a central core.

These intermeshing formations spread out and mechanically reinforce the paint film, giving it greater toughness, flexibility, adhesion and weather resistance.

White Lead's ready tendency to combine with linseed oil also explains why this pigment wets easily and gives such good mixing and grinding.

Dutch Boy *Basic Carbonate* **White Leads**
Reg. U. S. Pat. Off.

NATIONAL LEAD COMPANY—New York, 6; Buffalo 3; Chicago 8; Cincinnati 3; Cleveland 13; St. Louis, 1; San Francisco 10; Boston 6, (National Lead Co. of Mass.); Philadelphia 7, (John T. Lewis & Bros. Co.); Pittsburgh 30, (National Lead Co. of Pa.).

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Oils, Fats and Waxes

Active demand and light offerings boosted prices of oils and fats last week. Consuming inquiry was keen and trading was done at mounting prices. Refiners cleaned up available supplies of crude cottonseed oil, purchasing more than one hundred tankcars at an advance of 1 cent per pound. This advance and higher competing oils were reflected in bleachable cottonseed futures and some options reached new highs for the season. Considerable typhoon damage to coconut groves in the Philippines was reported, resulting in copra selling at new record levels and advancing the market about $50 per ton. Coconut oil was boosted 3c. per pound, with offers materially reduced. Higher cost of soybeans which were sold at new highs, stiffened soybean oil and moderate business was transacted at an increase of 1c. per pound. Tallow and grease production was sold ahead and large buyers raised bids 3c. per pound in order to obtain moderate quantities. Producers continued to restrict offerings. Animal oils were higher and raised 2c. per pound and stearic acid and red oil were lifted up to 4 cents per pound. Producers of crude peanut oil were sold ahead and light sales were transacted at 1 cent per pound higher. Crude corn oil also firmly held and was advanced fractionally.

Cottonseed Oil

Active trading and sharply higher prices featured bleachable cottonseed oil futures last week. Trend of the market was steadily upward and new highs for the season were registered in January, May and July options. March reached its former high. The market reflected the strength in crude oil, lard and tallow.

Heavy trading in crude cottonseed oil took place last week, and refiners were reported to have absorbed all offers at 29c. per pound, tankcars, f.o.b. mills for January and February shipment, an advance of 1c. for the week. Crushers withdrew offers and anticipate a 30c. market shortly.

Memphis.—Crude cottonseed oil was bid at 29c. per pound, tankcars, and 27½c. for soybean oil. Crushers were holding for 30c. Cottonseed meal, 41 percent, was quoted at $97.50 per ton, Memphis. Cake at $90 per ton, Mississippi Valley. Cottonseed hulls held at $17.50 per ton, bulk, and $23.50 sacked, mill points. Seed movement about over, prevailing price $125 per ton.

Prices of refined bleachable prime summer yellow cottonseed oil in tankcars on the N. Y. Produce Exchange for the week ended January 9, follow:—

	Sales	Cents per pound—High	Low	Close
January	1	33.00	33.00	32.00@32.90
March	188	31.25	28.75	31.15S
May	307	29.90	28.00	29.75S
July	100	28.15	27.50	28.07S
September	46	28.10	26.80	27.41@27.45
October	7	27.10	25.75	25.50@26.00
December	..	....	....	24.60@26.00

Total sales—649 tankcars.
Crude oil firm at 29c. per pound, tankcars, f.o.b. mills.

Linseed Oil

Buying interest continued slow last week. Because of higher freight rates, oil prices were raised 1/10c. to 33.20c. per pound, tankcars for January and 32.70c. for February-June in Zone 3. Firmness of the seed market was a dominant factor in the oil market. Offerings of seed continued scarce, with crushers reported bidding at $7 per bushel f.o.b. Western mills. Moderate improvement was noted locally for deliveries of oil against current contracts. Other drying oils also were inactive, though prices remained firm for castor, fish and tung oils.

Minneapolis.—Demand for oil was rather quiet during the first week of the New Year and crushers were not aggressive sellers. Prices carried over on the January basis of 32.6c. in tanks, Zone 1. Oil for February forward quoted at 32.1c. per pound, in tanks, with only scattered sales reported in the more distant months. There was little oil for sale during January-February and March supplies were not heavy. Mill production was at a high level, instructions brisk with all mills and movement of oil held down only by the lack of tankcars.

Shipments of linseed oil, in pounds, were as follows:—

	1947-48	1946-47
This week	5,940,000	4,920,000
Since Sept. 1	126,220,000	107,900,000

Flaxseed—Offerings of seed continued scarce. Demand was active and unsatisfied. Prices were unchanged and firm.

Minneapolis.—Hope for a rush of flax marketing right after the turn of the year was pretty well dashed in the first week of business as movement into local terminal storage continued and more than offset the few cars merchandised to crushers. Less than 50 cars of flaxseed were sold out of local storage during the week and it was estimated that more than 50 cars went into storage. Crushers estimated that 2,000,000 to 4,000,000 bushels of marketable seed is held in store, waiting developments in Washington, further information on imports and final decisions on the 1948 income tax rate. Crushers were still aggressive buyers of seed, unable to find enough in the daily market to satisfy needs but not in a position to do much about it. The cash price held at $7.00 per bushel on spot and to arrive offerings with all buyers combing the market for supplies. It is estimated that approximately 10,000,000 bushels of flaxseed is still to be marketed, either out of store or from the country, but unless the selling attitude of the farmer changes it may be difficult to obtain needed supplies. Farmers are in good financial position and in no mood to be stampeded into indiscriminate selling of their "hedge against inflation."

Shipments of flaxseed in bushels were as follows:—

Bushels—	Receipts— 1947-48	1946-47	Shipments— 1947-48	1946-47
This week	244,800	151,300	56,100	30,600
Since Sept. 1	17,724,100	9,209,300	2,516,300	3,593,600

Market Trends

Prices Advanced

Beeswax, 2c. to 3c. per lb.
Carnauba wax, 3c. to 5c. per lb.
Coconut oil, 3c. per lb.
Copra, $50 per ton.
Cottonseed oil, 1c. per lb.
Grease, 4c. per lb.
oil, 2c. per lb.
Lard, ½c. per lb.
Linseed oil, 1/10c. per lb.
Red oil, 3c. per lb.
Soybean oil, 1c. per lb.
Stearic acid, 3c. per lb.
Tallow, 4c. per lb.
oil, 2c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
251.3	237.2	249.1	286.0

(For Current Prices see Page 9)

Other Vegetable Oils

Castor, Dehydrated—Steady demand was reported for small lots for prompt delivery. Prices were without change and well held.

Coconut—This market was stronger with the sharp advance in copra. Crude oil was boosted to 24½c. per pound, tankcars, f.o.b. Pacific coast, January shipment and the sale of odd tankcars was reported at 25c. for immediate, same basis. Business also was done at 24c. for March same basis. Volume of trading was light and spotty, with offerings well held. As a result of considerable typhoon damage to coconut groves, the copra market was boosted to record price levels. Trading was reported at $300 per short ton, c.i.f. Pacific coast and the market later was quoted nominal at $320, an advance of $50. per ton. Typhoon damage in the Philippine Islands will reduce copra exports about 30 percent this year, according to official predictions there. Copra shipments were placed at 1,000,000 tons in 1947. Only Mindanao of the four principal coconut producing districts escaped severe damage.

Corn—Crude corn oil was sold at 31½c. per pound, tankcars, f.o.b. mills and sellers were holding at 32c. Offerings were scarce. Refined oil was firmer and quoted nominally at 35½c. per pound, tankcars, mills.

Olive—Trading was inactive and the spot market continued entirely nominal. Interest in shipments from Spain was reported slow. Reports from there stated that the Spanish government would not issue export licenses below the price at $106 per 100 kilos, f.o.b.

Palm—Import licenses for palm oil from the Belgian Congo and Netherlands East Indies will be granted under War Food Order 63 it was announced by the Department of Agriculture, January 5. It is expected that allocations for the year 1948 recommended by the IEFC will be announced in two or three weeks. The palm oil is to be imported into the United States with the provision that it shall be used only in the manufacture of tin plate or for such other purpose as is approved by the Department of Agriculture. The maximum amount of each import license is 2,500 metric tons from the Belgian Congo and 500 metric tons from the Netherlands East Indies. To be eligible for licenses, importers must show proof satisfactory to the Administrator of WFO 63 that the previously-licensed amount had been purchased for importation for domestic consumption in the United States. Furthermore, licenses will be granted to private importers for the transshipment of palm oil through the United States to countries having IEFC allocations upon receipt of requests from the governments concerned. Licenses for importation for both domestic consumption and for transshipment will be valid for ninety days after date of issuance. Applications for import licenses should be filed with the Administrator of War Food Order 63, Fats and Oils Branch, Department

For Late Market Developments, See Page 4

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of Agriculture, Washington 25, D. C. The application should be accompanied with a statement or other evidence of eligibility for a license showing that the applicant had previously imported palm oil from the Belgian Congo or from the Netherlands East Indies.

Peanut—Offerings of crude oil continued scarce and trading were limited at 29½c. tankcars, f.o.b. mills, January-February shipment. Bids at this figure were not accepted. Refined oil was firm and quoted at 35c. to 35½c. per pound tankcars, f.o.b. mills

Marketing quotas on the 1948 crop of peanuts were terminated January 2 by the Department of Agriculture because of the world shortage of foods, fats, and oils. Under marketing quotas, production in 1948 would have been approximately 2,359,000 acres, compared with approximately 3,378,000 acres harvested for nuts in 1947. The 1948 allotment would have been about 30 percent less than the average acreage harvested in the period 1942-46. On December 2, prior to the marketing quota referendum, the department issued a statement saying that quotas and allotments for the 1948 crop probably would be suspended. Peanut producers voted in favor of quotas for the next three years, thus making the quota machinery available for 1949 and 1950 in the event conditions should make it necessary to impose marketing quotas for peanuts. Official returns of the December 9 referendum show that 92,136 peanut producers, or 87.7 percent of those voting, favored quotas, while 12,953 producers, or 12.3 percent, disapproved quotas. Production of farmers stock peanuts in 1947 was 1,126,000 tons. Of this quantity approximately 200,000 tons of peanuts will be used in farm home consumption and for seeding the 1948 crop. This leaves 926,000 tons as the commercial supply. Domestic edible consumption is expected to total 500,000 tons, leaving approximately 426,000 tons for export or for crushing into oil. To date, 127,000 tons of shelled peanuts of the 1947 crop have been allocated for export through the first quarter of 1948.

Soybean—Market was firmer and advanced about 1c. per pound last week. Trading was moderate and mainly for nearby and forward delivery. Crude oil was quoted nominally at 28c. per pound, tankcars, f.o.b. mills, for January and 27½c. bid. February-March was reported sold at 26c., same basis and later February was quoted at 27c. and March at 26c. Business was also done at 23½c. for April-June with sellers raising prices to 24½c. Refined oil was in limited supply and higher at 31½c. to 32c., tankcars, f.o.b. mills. Refined alkali and clarified were raised 1c. to 30.17c. and 29.14c. per pound, respectively in tankcars, New York basis.

Prices of refined bleachable soybean oil, in tankcars on the N. Y. Produce Exchange for the week ended January 9, follow:—

	Sales	High	Low	Close
		——Cents per pound——		
January	..	....	....	27.00B
March	..	....	....	26.25B
May	..	....	....	25.75B
July	..	....	....	25.50B
September	..	....	....	24.50B
October	..	....	....	24.40N
December	..	....	....	24.00N

Total sales—None.

Tung—Consuming interest was fairly active and moderate trading was reported on the basis of 26c. and 26¼c. per pound, tankcars, New York basis, for prompt and nearby delivery. Some sellers withdrew as a result of higher cables from China for replacements which were about 2c. above current quotations here.

London (Comtelburo).—Steadier conditions were reported, January 6, in the United Kingdom tung oil market, the price now being £190 per ton, c.i.f., against £185 per ton previously. Demand from consuming countries is at low ebb, but it is understood that a certain amount of local buying is going on at Hong Kong, which is believed to be engendered by prospects of an early agreement between the Chinese and Hong Kong governments to prevent the future sale of cheap parcels which are detrimental to the Chinese economy. If an agreement is reached, some quarters here anticipate that Hong Kong prices will be moving up to the Shanghai level of fully £210 per ton.

Fats and Greases

Greases—Prices were advanced 4c. per pound for all grades. Market was stronger with tallow. Trading was moderate at the higher levels. Choice white was sold at 24c. per pound, loose, works, yellow at 22½c. and house was nominal at 22c., same basis.

Lard—Market was higher with grains and competing oils. Trading was fairly active. Cash lard was 27.50c. per pound, tierces and 26.12c. bid, loose, Chicago. Lard stocks in Chicago totaled 55,254,747 pounds, December 31, compared with 39,208,233 pounds a month ago and 17,936,144 pounds, December 31, 1946. Purchases of steamed rendered pork fat amounting to 80,000 pounds at 28¼c. per pound, f.o.b. western plant, in reconditioned drums for export were made by the Department of Agriculture, December 11.

Tallow—Trading was moderate at an increase of 4c. per pound for all grades. Demand was quite active, but offerings were limited. Fancy was reported sold at 24c. per pound, loose; extra at 23½c. and special, 23½c. same basis.

Animal Oils

Grease Oil—Higher cost of tallow and grease boosted quotations at least 2c. per pound. Demand was light and spotty. No. 1 was quoted at 28½c. to 29c. per pound, as to quantity, winter strained 32½c. to 33c. and prime burning, 33½c. to 34c.

Oleo Oil—Firmer pressing stock market improved the tone of this market. Market was firm. Extra was quoted nominally at 28c. per pound, tierces.

Tallow Oil—Prices of acidless were increased 2c. per pound, to 30c. to 30½c. per pound, drums, as to quantity.

Fish Oils

Cod—Limited supplies on the spot and for arrival were well held at current levels. Market was quiet and prices remained firm and unchanged. Arrivals were reported at 32c., drums, at New York from St. Johns, last week.

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Sardine—Business in refined grades was confined to small lots for actual needs. Prices were maintained at former levels. Crude oil was firm and scarce.

Los Angeles.—Little trading was noted in this market. No fishing activities because of the holidays. California Sardine Products Institute reports 98,408 tons were landed this season to December 25, compared with 210,652 tons a year ago.

Fatty Acids

Red Oil—This market was firmer with tallow and grease and prices were advanced up to 3c. per pound, depending upon maker. Trading was inactive but the market was strong. Single pressed was quoted at 30½c. per pound and double at 33c. per pound, tankcars.

Stearic Acid—Sharp advance in tallow and grease was reflected in this material and quotations were raised 3c. per pound. Single pressed was quoted at 36½c. to 37½c. per pound, bags, as to quantity; double 37c. to 38c., and triple 39¼c. to 40½c., same basis.

Cake and Meal

Cottonseed Meal—Demand was generally better with markets establishing a new high this week. Sacked 41 percent sold at $94 in Georgia and $95 in South Carolina, an advance of $1.00 over last week.

Linseed Meal—Market remained firm at the recent advance. Demand was active. Supplies were limited.

Minneapolis.—Demand for meal was brisk, supplies light and the market firm to strong. Most mills were asking $100 per ton, bulk, in carlots, for spot supplies, discounting February around $2.00 per ton and March forward about $5.00 per ton under the spot market. Instructions were brisk on maturing contracts and there was still a scramble for spot meal supplies.

Shipments of linseed meal, in pounds, were as follows:—

	1947-48	1946-47
This week	10,620,000	9,180,000
Since Sept. 1	205,560,000	147,080,000

Peanut Meal—Because it is much cheaper than other oil meals, there is an unprecedented demand for peanut meal particularly from Eastern and Midwestern states where soybean meal is scarce. Sacked 45 percent traded at $90 and sacked 41 percent at $85 this week f.o.b. Alabama, Georgia mills but mills appear to be fairly well sold up and there are many unfilled bids outstanding at these prices for shipment January through March.

Soybean Meal—This market seems to be in a squeeze and it is almost impossible to obtain offerings from Middle Western producers for January, February shipment. Round lots bulk 41 percent sold at $92 f.o.b. Alabama mills for shipment to Buffalo, New York a most unusual movement. Bulk 41 percent is offered by Georgia mills in limited quantities at $90.50 for January, February and March. Tradings in North Carolina have been very active and that market is also higher with bulk 45 percent trading at $93 for immediate and at $91 February, March and $88 April.

Waxes

Beeswax—With Brazilian market higher, crude grades on spot and for shipment were stronger and advanced. Trading was limited and quotations were more or less nominal. African crude was quoted at 53c. to 55c. per pound, as to quantity and Western Hemisphere ranged from 55c. to 59c., depending upon quantity and seller.

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Commercial quantities for prompt delivery available for the present ***in black only.***

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Margarin Output Larger

Margarin production during October was larger than the previous month and during October last year, according to statistics compiled by the Bureau of Internal Revenue:—

	Pounds—October 1947	1946
Production of uncolored oleomargarin	*80,661,636	50,619,830
Withdrawn tax-paid	79,197,400	49,897,793
Used in Uncolored Margarin		
Butter culture	.....	68
Butter flavor	310	232
Citric acid	14	298
Coconut oil†	230,500	.....
Corn oil	885,183	637,480
Cottonseed flakes	480	.....
Cottonseed oil	39,515,890	22,303,914
Cottonseed stearin	27	.....
Derivative of glycerin	128,142	82,443
Diacetyl	225	63
Lecithin	94,732	61,822
Milk	13,554,373	8,515,911
Monostearin	89,684	58,389
Neutral lard	386,205	102,369
Oleo oil	354,056	114,630
Oleo stearin	422,724	117,552
Oleo stock	103,800	33,355
Peanut oil	815,937	809,200
Salt	2,530,120	1,614,785
Soda, benzoate of	59,219	36,468
Soybean oil	22,747,612	16,923,609
Soybean stearin	.....	12,200
Vitamin concentrate	12,352	8,642
Total	81,951,185	51,432,490
Production colored oleomargarin	6,343,107	9,651,350
Withdrawn tax-paid	3,690,750	1,530,123
Used in Colored Margarin		
Butter flavor	66	28
Coconut oil†	1,520,493	6,187,749
Color	3,664	4,508
Corn oil	20,278	2,083
Cottonseed flakes	3,500	.....
Cottonseed oil	2,038,102	528,576
Derivative of glycerin	7,348	9,694
Diacetyl	40	173
Lecithin	5,557	6,539
Milk	1,680,184	1,585,196
Monostearin	3,955	3,411
Neutral lard	18,617	19,109
Oleo oil	22,400	9,554
Oleo stock	15,000	.....
Peanut oil	4,442	1,363
Salt	202,107	316,292
Soda, benzoate of	2,732	3,998
Soybean oil	1,504,986	1,143,527
Soybean stearin	.....	2,400
Vitamin concentrate	711	1,316
Total	6,462,044	9,825,911

* Of the amount produced, 3,873 pounds were reworked.
† 297,780 pounds of this oil used in oleomargarin manufactured for export by, or from, the United States, and 1,453,015 pounds used in production of the product for domestic consumption.

Dr. G. W. Carver Honored By Postage Stamp Issue

Dr. George Washington Carver, who rose to international fame through his research work on peanuts and sweet potatoes, was recently memorialized by the issuance of a special three-cent postage stamp on the fifth anniversary of his death.

The stamp issue was officially inaugurated by Postmaster General Jesse Donaldson at ceremonies at Tuskegee Institute, Tuskegee, Ala., which keynoted Carver Day ceremonies throughout the country. President Truman sent a telegram to Dr. F. D. Patterson, president of the institute, congratulating the institution for carrying on Dr. Carver's work through the George Washington Carver Foundation.

Del Castillo Appoints Hukill Ohio Representative

Rafael Del Castillo & Co., distributors of imported carnauba and beeswax and petroleum waxes, New York, has appointed the Hukill Chemical Corporation, Cleveland, as technical sales representative in Ohio and surrounding territory.

Oil Traders Meet Jan. 22

The quarterly meeting of the Oil Trades Association of New York will be held at the Waldorf-Astoria hotel on January 22. Reception will be at 6:30 p.m. and will be followed by dinner an hour later.

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Explosives Transport Rule Extended

OPD Washington Bureau

The Interstate Commerce Commission has extended until December 31, 1948, its order of December 31, 1943, modifying the applicability rule covering the transportation of explosives and other dangerous articles in interstate, foreign and intrastate commerce by common, contract and private carriers, and granting certain exceptions thereto applicable to private carriers because of the scarcity of labor, materials and equipment.

The commission said that this action was taken after the American Petroleum Institute and the American Trucking Association had shown that because of unprecedented demand for petroleum products and the continued short supply of equipment, parts and materials, such an extension was necessary.

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8—Rubber Mills, 36", 42" and 60".

1—Sweetland No. 2 Filter.

8—Evaporators, Single or Multiple Effect, in Copper.

2—Raymond Imp Mills, No. 45.

REACTORS

4—Jacketed and Agitated 1,700 gal. Steel Reactors.

2—New Stainless Steel and Monel Jekted., Agitated Reactors, 1,500 gal. and 2,500 gal.

MIXERS

30—Heavy Duty Jacketed Mixers, double arm, sigma or naben blades, tilting, geared both ends.

5—Readco Double Ribbons Jacketed Mixers, 210 gal.

60—Mixing Kettles and Tanks, all metals and sizes.

40—Ribbon Type Dry Mixers up to 3,000 lbs.

MILLS

4—Abbe Silex Lined, 3' x 3'6", 6' x 5' and 6' x 8'.

6—Hardinge Mills, 3' x 8', 4' x 8', others.

10—Roller Mills by Day, Ross, Kent, Lehman, 12" x 30" and 16" x 40".

CENTRIFUGAL EXTRACTORS

8—Centrifugal Extractors, Tolhurst, American, 20" to 72", perforate and solid baskets, suspended or self-balancing, steel, copper or stainless.

DRYERS

3—Triple Pass Proctor & Schwartz Soap Dryers with flaking rolls, 6' wide conveyor, 40' and 50' long, still set up in Eastern location.

12—Rotary Drum Dryers, single and double drum, all sizes.

FILTERS and FILTER PRESSES

15—Plate and Frame Filter Presses, cast iron, aluminum, wood, etc., from 12" to 42", state requirements.

9—Rotary Vacuum Filters, Oliver, Portland, Feluc, up to 8' x 12'.

PULVERIZERS and GRINDERS

6—Mikro Pulverizers, Nos. 1, 2 and 4, some in Stainless.

10—Fitzpatrick Model D, Stainless Steel Comminuting Machines.

45 others by Raymond, Williams, Gruendler, Stedman, Schutz-O'Neill.

TABLET PRESSES

40—Rotary and Single Punch Machines by Stokes, Colton, Kux, please state tonnage, size and depth and capacity of tablets.

COMPLETE PLANTS for SALE

Rubber, Plastics, Macaroni, Food Products, Bleach, Corn Syrup, Sugar Refinery, Oil Extraction, General Chemicals, others.

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1—Rubber Lined Steel Storage Tank, 11,000 gals., 10'6" dia. x 19' horiz., 5/8" plate. Manhattan R & M Co.

10—Wet or Dry Mixers, 24" x 18", straight arm, each with 5 HP AC motor and reducer.

3—Steel Bins, 50' dia. x 33', 24' x 12', 45° cone bottoms.

30—Steel Tanks, 55' dia. x 50', 35 x 21', 30 x 20', 12 x 21', 3 x 20', all vertical.

80—Centrifugal Pumps, 350 GPM, 60' head and larger, up to 8,000 GPM.

1—No. 12 SWEETLAND, 36 leaves, 4" c c.

1—8' x 12' Oliver PRECOAT FILTER.

27—Stainless Steel TANKS, 1,000, 900, 350, 300, 250 gal.

47—Aluminum TANKS, 800, 700, 250 gallons.

2—1,500 gal. Stainless Steel Jack. VERTICAL TANKS.

4—COLLAPSIBLE TUBE MACHINES: 1—Stokes No. 79-80 Filling, Closing, Clipping; 1—Colton No. 14 Auto. Filling, Closing, Clipping; 1—Colton No. 2 Comb. Filling and Closing; 1—Colton No. 4 Auto. Closer & Clipper, M.D.

3—Micro Pulverizers, No. 18H, each with two totally enclosed fan-cooled motors.

1—Badger 885 gal. all copper GIN STILL, complete wih condenser and pump.

2—World ROTARY LABELERS, late type, M.D.

2—W. P. MIXERS, jacketed, 100-gal. sigma blades.

1—Colton No. 8 Can FILLER, ¼ pt. to 1 qt.

1—Premier 5" Colloid Mill, 10 H.P. motor.

1—York 500 GPM HOMOGENIZER bronze fitted, with 15 H.P. A.C. motor.

1—Pneumatic Scale Tight Wrap Machine, M.D.

1—Ferguson PACKOMATIC Auger FILLER, Model MG.

2—Colton No. 3 TOGGLE Globule PRESSES, for making capsules.

1—Pneumatic Scale six head CAPPING MACHINE.

1—Devine No. 11 VACUUM SHELF DRYER, 17 shelves, 40" x 42".

Approximately 200 feet of STEEL BALL BEARING ROLLER CONVEYOR, from 16" to 24" widths.

POWDER MIXERS

2—Day Invincible, 415 lb. MIXERS.

2—Day, size D, 600 lb. MIXERS, M.D.

12—Read 700 lb. horizontal, jacketed MIXERS.

1—Gedge Gray 1,000 lb. horizontal MIXER, reduction drive.

1—Gedge Gray 1,200 lb. horizontal MIXER.

2—Steel 2,000 lb. horizontal ribbon agitation MIXERS, one with 20 HP motor.

2—MUNSON Rotary MIXERS, 2,000 lb. and 3,000 lb.

LIQUIDATING

Modern MACHINERY From Government WAR PLANT

20—Baker Perkins MIXERS, 100 gallons, jacketed, sigma blades, hydraulic tilt, with stuffing boxes.

2—60" BADGER continuous Copper FRACTIONATING COLUMNS, 33' high, with auxiliaries.

2—36" BADGER continuous Copper FRACTIONATING COLUMNS, 21' high, with auxiliaries.

12—40" AMERICAN TOOL Suspended type CENTRIFUGALS, steel perforated baskets, 2-speed, motor driven, with unloaders.

20—42" AMERICAN TOOL Suspended type CENTRIFUGALS, with STAINLESS STEEL BASKETS and CASINGS, 2-speed, motor driven, with unloaders.

5—Ingersoll Rand CENTRIFUGAL PUMPS, 4,000 G.P.M.; 170' head, direct connected to 200 HP motors.

Approximately 25—Labour non-corrosive, self-priming CENTRIFUGAL PUMPS, made of stainless Steel, Durimet, etc. Various sizes.

13—25 HP FALK MOTO-REDUCERS, with motors and fans.

10—Stainless Steel STORAGE TANKS, 300 to 8,000 gal.

Approximately 20—TANK SCALES, with tanks up to 9,000 gal. capacity and scales up to 100 tons capacity.

11—Vertical Steel STORAGE TANKS, 10' x 12', 7,000 gal., dished top.

7—LEAD-LINED Steel STILLS, 1,200 gal. capacity, with lead coils.

2—6' dia. Buflovac ATMOSPHERIC CRYSTALLIZERS, with reduction drives and motors.

10—Elliot BAROMETRIC CONDENSERS, made of Duralloy, with Air Ejectors.

30—Hydraulic EXTRUSION PRESSES, used for dehydrating and finishing.

Completely equipped LABORATORY.

MISCELLANEOUS — Compressors, Agitators, Dryers, Shredders, Tanks, Heating Units, Conveyors, Water Softening System, etc.

SEND FOR DETAILED LIST

DRYERS

1—Devine 5'x33' ROTARY VACUUM DRYER.

1—6' dia. x 50' long LOUISVILLE ROTARY STEAM TUBE DRYER, with two rows of 54 tubes, 3½" and 4", gear reducer drive.

1—B. & C. 36" x 81" Atmospheric DOUBLE DRUM DRYER, complete.

2—Buffalo 32" x 72" Atmospheric DOUBLE DRUM DRYERS, M.D.

2—B. & C. 28" dia. x 60" face Atmospheric DOUBLE DRUM DRYER, complete.

8—Direct heat ROTARY DRYERS, 4' x 28', 5' x 40', 7'6" x 55', 8' x 45', 8' x 55'.

2—Buflovak 24" x 20" Rotary Vacuum single DRUM DRYERS, complete with surface condensers and vacuum pumps. Iron Drums, Copper - Lined Housing.

EXTRACTORS

8—Troy 48" dia. Extractors, clear top, with perforated steel baskets, underdriven, V-belt drive attached to vertical mounted motor 5 H.P., 220 volt. Complete with Automatic Timing Device, motor controls, practically new condition.

ROLLER MILLS

1—Kent, 16x40, motor driven.
2—Day, 12x32, motor driven.
2—Kent, 12'x30", motor driven.
3—20x48", belt driven.

SEND FOR COMPLETE LIST OF PAINT MACHINERY

KETTLES

35—Aluminum JACKETED KETTLES, 20 to 100 gallons.
3—Aluminum JACKETED, AGITATED KETTLES, 1,200, 750, 500 gallons.
36—Stainless Steel JACKETED KETTLES, 80, 60, 40, 30, 20 gals.
2—1,500 gal. Vertical, open top, S.S. Jack KETTLES.
10—250 gal. Copper Steam Jack. KETTLES.
1—500 gal. Dopp JACKETED KETTLE.
1—400 gal. Copper Steam Jacketed KETTLE.
1—250 gal. Copper Jack. Agit. Closed KETTLE OR VAC. STILL.
2—Copper Steam Jacketed Agitated KETTLES, 1—54" dia. x 42" deep, 300 gals.; 1—36" dia. x 31" deep, 70 gals.

TABLET MACHINES

1—Colton No. 5½ "T" single punch, V-belt to 5 HP AC motor, max. dia. 3¾".
1—Colton No. 4½ single punch, max. dia. 1½".
2—Stokes RD-4 Rotary 16 punch maximum 1" dia.
3—Stokes "R" single punch, maximum 2½" dia.
4—Stokes "F" single punch, maximum ¾" dia.
1—Stokes "N" single punch, maximum ½" dia.

FILTER PRESSES

1—Shriver, 30"x30", cl., 19 plates.
1—Johnson, 36"x36", iron, center feed, 44 plates, double end, gear closing device.
1—Sperry, 30"x30", iron, plate and frame, closed delivery, 20 shambers.

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WANTED — YOUR IDLE MACHINES — SEND LIST NOW

JANUARY SPECIALS

FILTERS & FILTER PRESSES

8—40" x 40" cast iron, P&F, 44 chambers, washing type.
6—Shriver 36" x 36", cast iron, 42 chambers, P&F, washing type.
4—18", 24", 32". Wood P&F Filter Presses.
1—No. 12 Sweetland, 72 steel leaves, 2" centers.
1—No. 10 Sweetland 54 bronze leaves, 2" centers, 500 sq. ft.
1—No. 2 Sweetland, No. 316 stainless steel body and leaves.
6—No. 2H Vallez, 16 to 24 sq. ft.
2—Swenson Rotary, 4' x 4'.
4—Oliver, 8' x 8', 8' x 6', 8' x 4'.

CRYSTALLIZERS

1—Buffovak 6' dia., Vacuum Type.
2—Buffovak 6' Atmospheric.
3—Swenson Walker Continuous, 24" x 20'.

KETTLES AND TANKS

6—2,000 S.S. closed jacketed agitated kettles.
1—New Dopp 150 gal. Jacketed, Agitated Kettle, Vertical, jacketed blades.
1—Blaw-Knox Ductiweld 100 gal. Steel Jacketed, Agitated Kettle, 125 lb. jacket pressure, 150 lb. internal pressure.
5—Stainless Steel Kettles, 60 to 500 gals.
1—Patterson Rubber-Lined Mixing Tank, 3' dia. x 6' deep, with Type "R" Uni-Power Drive.
1—Pfaudler jacketed glass-lined Kettles, 60 gallon capacity, double S.S. agitators.
5—Pfaudler glass-lined Tanks, 40 to 700 gal.

CENTRIFUGALS—CENTRIFUGES

1—A.T.&M. 48" Suspended Type Centrifugal 40 HP—1,200 RPM.
1—A.T.&M. 40" Suspended Type Centrifugal, 30 HP—1,800 RPM.
4—Tolhurst 32", 40" Self-Balancing Type Centrifugals.
1—Fletcher 20" Suspended Type Centrifugal, steel basket, with 10 HP, 1,150 RPM.
1—Sharples No. 16 Vaportite Centrifuges, with stainless steel bowls, explosion-proof motors.
1—Sharples No. 6 Pressurtite Centrifuge.
1—Sharples No. 6 Super Centrifuge.
2—De Laval No. 600 Clarifiers.

MIXERS

1—Baker Perkins, Type VI, Class BB, size 15, jacketed sigma blades.
3—W.&P. ½, 9 and 20 gals.
1—Readco 4 gal., double arm, stainless.
25—Powder Mixers, 400, 600, 1,000, 2,000 and 3,000 lb., Motor Driven, NEW.
12—Portable Electric Agitators, ¼ to 2 HP.
6—100 gal. Lead Mixers, motor driven.

DRYERS

2—Devine, Stokes Vacuum Shelf Dryers, 7 and 20, 40" x 42" shelves.
1—Lectrodryer C-75, 750 C.F.M., activated aluminum.
1—Buffovak 32" x 90" Atmospheric Double Drum Dryer.
1—Buffovak Vacuum Drum, 24" x 20".
2—Rotary Vacuum 5' x 33', 2' x 6'.
1—Rotary Steam Tube Dryer, 6' x 26'.

MILLS—PULVERIZERS

1—Eppenbach Colloid Mill, stainless steel, ½ HP.
1—Hardinge 6" x 22" Conical Steel-Lined Ball Mill, with feeder and 10" Gayco Air Separator.
1—Hardinge 36" x 24" Conical Steel-Lined Ball Mill.
1—Gruendler Master Hammer Mill, 10 HP motor.
3—Ball & Jewell No. 0 and No. 1 Rotary Cutters.
1—Abbe 10 Jar Mill, with 10—¼ gal. jars.
1—Patterson 2' x 3' porcelain lined pebble mill

EVAPORATORS AND STILLS

1—5' All Copper Evaporator, vertical tubes, 500 sq. ft.
6—Copper and Iron Vacuum Pans, 4', 5', 6', 8', 16'.
3—Copper Stills, 100, 150, 400 gals.

MISCELLANEOUS

1—Large Lot of Crleron Fittings, Parts and Piping, Brand New.
1,500 ft.—16", 18", 24" Roller Conveyor.
25—Stokes, Colton Tablet Machines, single and rotary, ½" to 2½".
3—Bucket Elevators, 25', 28', 35' centers.
25—Oliver "Olivite" Acid Resisting 2" Centrifugal Pumps.
15—Duriron, Lead, Haveg, Bronze & Stainless Centrifugal Pumps, ½" to 3".
2—Kiefer Visco Fillers up to 128 oz.
1—Rotex No. 21 single deck 40" x 84" sifter.

Partial List Only, send for "News Flash"

BRILL
Equipment Co.
225 WEST 34th STREET
NEW YORK 1, N.Y.
BRyant 9-2040

PROCESS EQUIPMENT FOR SALE

1—No. 12 Sweetland Filter Press, 56 leaves, 4" centers.
1—No. 1 Raymond Pulverizer, cyclone, blower & motors.
1—No. 1 Gruendler Pulverizer and motors.
1—5' Gayco Double Whizzer Separator and motor.
1—Model 100 Sprout Waldron "V" Style Mixer.
2—24" x 24" Sperry Plate & Frame open delivery filter presses.
1—6' dia. x 6' long Thropp Silex-lined Pebble Mill.
1—6' dia. x 5' long Porcelain-lined Pebble Mill.
1—Cascade Minus 120 degree Deep Freeze Unit complete.
1—Cummer 4' x 16' Rotary Dryer, with bucket elevator, hopper, speed reducer and motor.
1—Pony Labelrite table model motor driven gummer with motor.
2—Brown Electric Pyrometers (1,200° to 2,600°F.).
5—24" x 48" Single ribbon & paddle Mixers, with motors.
2—4½" x 2¾" x 4" Duplex Steam Pumps.

Write for Partial Stock Sheet "E"

EMSCO EQUIPMENT COMPANY
EMIL A. SCHROTH, Owner
41 HYATT AVE., NEWARK 5, N. J.
Phone: Mitchell 2-3536

IN STOCK

4—Allbright-Nell 4' x 9' Atmos. Drum Dryers & Flakers.
1—No. 12 Sweetland Filter, 71-36" copper leaves on 2" centers, hydraulic opening & closing.
2—Lehman Steel 5 Roller Mills, 16" x 39" & 3 Roll, 12" x 30".

1—Buffalo Vac. Drum Dryer 24"x30".
2—Devine Vac. Shelf Dryers, 9—42"x42" steam shelves, 6" spacings.
1—Devine No. 3 Vac. Shelf Dryer.
2—Sperry 18" sq. Lead Filter Presses.
12—Sperry & Shriver, 30", 32" & 42" sq. Iron Filter Presses.
3—Baker Perkins heavy duty Jack Mixers, 100, 50, 20 & 9 gals.
1—Devine No. 3 late type Vac. Shelf Dryer Elec. Heated.
8—Tolhurst 40" Suspended Type Centrifugals, Bottom Discharge. Also 36" Rubber-Lined.
2—Stokes RD4 Rotary Tablet Machines, 16 die openings 1 3/16" dia. Also ⅝", 1", 1½", also single punch.
3—Jones Type E & K, automatic Soap Presses.
1—Huber 25 ton Para Block Press.
11—Sharples No. 5A Stainless Oil Centrifuges, late type, 2 H.P.
2—Manton Gaulin Stainless Steel Homogenizers, type 200 & 300.
Devine 800 & 1,000 gal. closed steel Kettles & Stills.
1—Buffalo 200 gal. Autoclave 1500 PSI.
1—250 gal. lead-lined Kettle.
10—Day Dry Mixers, 50, 100, 300, 400 500 & 1,000 lbs.
2—Continuous Conical Dry Blenders, 1 to 1½ tons per batch, 7½ HP.
3—Stokes & Day Powder Fillers.
1—Hardinge 3'x8' Conical Ball Mill.
1—Standard Knapp Can Labeler.
1—Abbe Pebble Mill, 24"x36", 30 gals.
75—36" x 36" Cast Iron Filter Press Plates and Frames.
4—Stokes Vert. High Vac. Pumps.
3—Duriron 3" x 3" Centrif. Pumps.
1—Gruendler 7" x 10" Jaw Crusher.
1—Dings Magnetic Separator, 12" Magnetic Pulley.
1—Sturtevant 36" Rock Emery Mill.
1—Gruendler 5" x 6" Jaw Crusher.
1—Sharples No. 6 Centrifuge.
1—Sanco Jr. Vac. Bottle Filler.
6—Pfaudler Glass-Lined Jack. Agit. Kettles, 250, 400, 500 gals.
25—Stainless Tanks, 100 to 1,000 gal.
6—Filling, Labeling, Cartoning & Wrapping Machines.
10—Stainless steel, jacketed Kettles, new & used, 20, 40, 60, 80, 100, 375 & 500 gals., some agitated.
4—Alum. Kettles, 50 to 100 gal.
18—Copper jack. Kettles, 2, 20, 50, 75, 100, 250 & 350 gals., some agitated.
15—Port. Elec. Mixers, ½-2 HP.
1—Abbe 2 Jar Mill, 2 gal. Jars.
1—Williams No. 3 "Regular" type Hammer Mill.
1—Stedman 32" Single Roll Crusher.
1—Jeffrey 18" x 48" Single Deck Conveyor Screen.
New 40 gal. Pony Mixers.
4—Day Pot Mills, 24" x 32" dia.
8—Centrifugals, 20", 26", 30", 40".
4—No. 0000 and No. 0 Raymond Mills.
1—700 gal. steel copper-lined vac. Filter Tank.
1—Dopp 50 gal. jacketed Kettle.
1—Blystone 2,500 lb. horiz. Spiral & Paddles Steel Mixer.
6—Horiz. Mixers, 20 to 250 gal., single & double arm.
1—Faust 150 gal. Jack. Spiral Mixer.
2—Worthington 12" x 12" x 12" Vac. Pumps.
2—DeLaval Multi. Clarifiers, 300 & 301.
2—Rotary Screens, 18" x 72".
6—Attrition Mills & Disc Grinders.
1—Double Stand Steel 4-Roller Mill.
10—Iron Mills, 12", 14" & 18".
8—Stone Mills, 8" to 32".
6—Lead & Paste Mixers to 300 gals.
3—Varnish Kettles, 200 gals.
25—Rotary, Centr. & Triplex Pumps.
6—Gas Boilers, up to 10 H.P.
Soap Machinery for Toilet, Laundry, Chip, Liquid, etc.

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Security Resources Board To Meet January 14

The National Security Resources Board has called a conference of fourteen industrial leaders for January 14 to discuss the scope and content of the general program of the board on mobilization of industry in event of another world war. Among those invited to the meeting are:—

Eugene S. Holman, president of the Standard Oil Company of New Jersey; William E. Levis, chairman of the board of Owens-Illinois Glass Company; Hiland G. Batcheller, president of Allegheny Ludlum Steel Corporation; Ferdinand Eberstadt, president of F. Eberstadt & Co. and president and director of Chemical Fund, Inc.; Brehon B. Somervell, president of Koppers Company, and Charles E. Wilson, president of General Electric Company.

EQUIPMENT FOR CHEMICAL AND ALLIED INDUSTRIES

4—Shriver 42"x42" P/F Open Delivery Filter Presses, Hydraulic Closing Devices.

2—Shriver P/F 42"x42" Filter Presses, Open Del., 64 chambers.
2—Shriver P/F 36"x36" Filter Presses, Open Del.
1—Johnson P/F 36"x36" Filter Press, Open Del.
1—Sperry P/F 30"x30" Filter Press, Washing Type.
1—Shriver P/F 18"x18" Bronze Filter Press, Closed Delivery.
3—Baker Perkins Jacketed Stainless Steel Mixers, 100 gals., Sigma Blades.
15—Sharples Super Pressurite Centrifuges, No. 6.
1—Nickel-Lined Jacketed Kettle, 4,000 gals.

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Special Offerings for Immediate Delivery!

W. & P., Day Cincinnatus and Imperial Type Mixers; Hottmar Paragon, Read, Single and Double Arm from 2 gallons to 300 gallons.
Elgin 24 spout Rotary Vacuum Filling Machine.
Gayco 8 ft. Air Separator.
Schutz O'Neill, Jay Bee, Williams, Gruendler, etc., Pulverizers.
J. H. Day and Kent, Three Roll, 12" x 36", 16" x 40" Mills, motor driven with motor.
Mullers or Chasers 2 ft. to 6 ft. sizes.
Ermold and World Semi-Automatic Labeling Machines.
U. S. Bottlers C-10 and A-6 Acme Fillers.
Copper Steam Jacketed Kettles with and without Agitators.
Read, and Century Vertical Mixers, M.D.
Johnson and Oliver Sweetland Filter Presses.
Copper Stills and Vacuum Pans.
Huhn Rotary Continuous Dryers.
Schutz O'Neill Rotex, and Allis-Chalmers Lowhead Sifters.
Package Machinery Co., Johnson, Miller, all types of Wrapping, Packaging and Cartoning Equipment. (Please submit Samples of your item with Your Inquiry.)

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Steel Storage Tanks

5—74,000 Barrel, 115' x 40'
5—55,000 Barrel, 117' x 29'1"
1— 5,500 Barrel

Available at Once!

IRON & STEEL PRODUCTS, INC.
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Highly Desirable Equipment For Immediate Delivery

3—Mikro Bantom Pulverizers.
1—Mikro Pulverizer, 10 HP.
3—New Porter, 40 gal. Pony Mixers—X-proof motors.
5—Shriver, Sperry Filter Presses—7"x7" to 42"x42".
2—New 1,500 gal. steel reactors—ASME.
8—New 1,000 and 2,000 lb. powder mixers.
3—New Stokes, Kux Tablet Presses—2½" diameter.
1—Day Cincinnatus 30 gal. double arm mixer, M.D.

New Alsop Disc Filters
Stainless Steel
From 8 to 30 Plates

15—Readco, Peerless, Day, Triumph dough mixers from 1 to 3 bbl.
1—Hardinge Mill, 4'x14', M.D.
1—World Straightline auto. front & back labeler.
1—Kent 3 roll w.c. Mill, 10"x30".
1—Devine 20 shelf vac. dryers 40"x43".
2—150 & 500 gal. jacketed & agitated reactors.
75—Stainless steel and copper kettles from 20 to 250 gallons.

Send us your list of idle equipment

CHEMICAL & PROCESS MACHINERY CORPORATION
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WOrth 4-8130

FOR SALE

Stainless Steel Tanks, new, 100 and 200 gal., dished bottoms with stands.
20—Steam Jacketed Kettles, stainless steel and aluminum, 30 to 250 gals. capacity.
1—Dopp 125 gal. Steam Jacketed Kettle with agitator.
1—Stedman 40" Cage Disintegrator.
Stainless Steel Vert. Tank, 7' dia. x 10', No. 430 Chrome.
1—Buffovak Impregnating Tank, 42" x 52", steam jacketed.
2—New Ribbon Type Mixers, 8 & 24 cu. ft.
2—New 7" Shriver Filter Presses, 14 plate.
2—Flow-Master Kom-bi-nators.
4—Steel Tanks, 100,000 gal. each.
4—Steel Tanks, 67,500 gal. each.
3—New Worthington Steam Pumps, 6x4x6.
1—DeLaval Lab. Separator with ½ H.P. motor.
1—48-Spout Karl Kiefer Rotary Filler.
6—Stokes Rotary Tablet Machines, Model PD-4.
10—New Sharples Oil Purifiers.
6—New Clevon Can Filling Machines.

SPECIAL
1—New 12" Shriver Filter Press, 20 plate. (Closed Delivery)

H. LOEB & SON
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ALL OTHER CLASSIFIED ADVERTISEMENTS—$5.00, thirty-six words or less; 85c for each additional six words or fraction.

AGENCIES WANTED

Sales representatives, firmly established in Argentina, Chile and Uruguay wish to contact American producers of industrial and pharmaceutical chemicals and allied products. Extensive sales organization. Ibanez & Gomez, Viamonte 1636, Buenos Aires, Argentina.

BUSINESS WANTED

Thoroughly experienced, aggressive man, A-1 reputation interested in buying old established chemical business, or acquiring partnership. Present volume immaterial. OPD 347.

EQUIPMENT OFFERED

Tube closer and crimper; No. 2 Colton collapsible, 2 sets of holders, 1 in. and 1⅛ in.; excellent condition, $650; Tube closers, two No. 1 Colton hand 1 in. tube holder. Used 6 weeks, $85 each. Straits Products, Inc., 3247 Wight Street, Detroit 7, Michigan.

1/3 H.P. Lightning mixer; 24 in. Mikro pulverizer; 18 in. x 27 in. unlined ball mill; 6 ft., 10 ft. & 14 ft. Gayco air separators; new 3 in. colloid mill; 36 in. x 6 ft. flaker; 18 in. Shriver closed delivery filter press; 24 in. Shriver filter press, closed delivery; Kilby pressure filter, 24 in. dia. leaves. Mixing and grinding unit: 15 cu. ft. dry powder mixer, No. 1SH Mikro pulverizer, Pangborn dust collector. A unit complete with piping, motors, etc. Lawler Company, Metuchen, N. J.

EQUIPMENT WANTED

Oil Expeller wanted: state model and lowest cash price. OPD 336.

FACILITIES WANTED

Esterification facilities for tank car quantities wanted. Principals only. OPD 337.

MATERIALS OFFERED

Available for immediate sale: 50,000 lbs. Solvay Snowflake Crystals at $1.50 per cwt. 45,000 lbs. Solvay laundry soda at $1.25 per cwt. all f.o.b. any destination in East. Write OPD 314.

Surplus chemicals and pharmaceuticals. Contact G. Tacke for particulars. Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe 7, New York.

MATERIALS WANTED

Caustic soda, soda ash, sodium sulphide—actual top current market prices paid. Get our bid before selling. OPD 285.

Equipment Values!

AGITATORS

2—Rubber covered 50" dia. turbine type with 20 HP TEFC motor, speed reducer & controls.
24—Portable type 1/4, 1/3, 1/2, 3/4 & 1 HP, 400 RPM—some new and explosion proof.
28—Portable type 1/4, 1/3, 1/2, 3/4 & 1 HP, 1725 RPM—some new and explosion proof.

CAPPERS

3—Pneu. Scale. 6 head auto., screw type with cap selector.
1—Resina. auto. screw type for 28 mm. caps.
6—Strand cap tighteners — vertical, bench & floor types.

FILTERS

1—Oliver, rotary, 8'x8', rubber lined.

2—Oliver-Sweetland No. 5 Filters. 20 Bronze leaves, 3" centers. NEW.

1—C. I. 30"x30" recessed plate press, 35 plates.
1—Sperry, 30"x30", bronze plate and frame press.
2—Shriver, 30"x30", wood plates and frames.

MILLS

2—Thropp, plastic or rubber, 30".
2—Ross, paint, 16"x40".
1—Stedman, Hammer Mill, type BX with 20 HP motor.

MIXERS

10—Gemco powder blenders, copper construction, conical shape, 25, 50, 300 & 500 lbs.
3—Day, double ribbon spiral powder mixers, 50, 600 & 2,000 lbs. cap.
1—Readco, heavy duty, jacketed & tilting type, 5 bbl., with double arm kneader bars.
2—Readco, heavy duty, jckt'd & tilting, double arm, sigma blades, 150 gal cap.; 1 of stainless steel constr.

PRESSES—TABLET

5—Colton rotary No. 2; 16 punch head will take up to ⅝" tablet.
9—Stokes rotary D4; 16 punch head to 1" tablet.

KETTLES

1—500 gal. Dopp kettle—jacketed & agitated.
1—Steel kettle, 350 gal., 2/3 jacketed, excellent condition.
1—Aluminum kettle, 300 gal., 2/3 jacketed, open top.
1—Pfaudler, glass lined kettle, 100 gal., jacketed, agitated & tilting.
12—NEW stainless steel kettles, 50, 100, 150, 200 & 300 gals., 2/3 jacketed & open top.
14—COPPER KETTLES—jacketed—25, 50, 80, 100 & 500 gals. cap.

STILLS

2—Copper vacuum, jacketed & double acting scraper & finger agitator, 100 gal. capacity.
2—Water stills, 75 & 250 GPH. Excellent condition.

NEW STAINLESS STEEL TANKS
Any capacity you seek.
For immediate delivery.
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MATERIALS WANTED

Wanted to purchase lacquer lustreless olive drab, spec, 3-162-C color 202 and/or 319. Reply OPD 310.

Wanted: Surplus chemical and raw material stocks of all kinds including triethanolamine, propylene glycol, and alkalies, solvents, plasticizers, dyestuffs, detergents, intermediates, biochemicals, pharmaceuticals, etc. Send complete details on specifications, packing, and price to OPD 333.

Wanted: Caustic Soda, Soda Ash, Aminopyrene, Antipyrene, Formic Acid, Sodium Sulphide, Titanium Dioxide, Direct Black, Vat Jade Green, and many other chemicals and dyestuffs. Top market prices paid. We also purchase surplus and odd lots. OPD 339.

Do not wait until conditions further limit prospects of disposing of top-heavy inventories. Will purchase surplus unshipped commodities, all kinds. Particularly interested in gums, waxes, spices, botanicals, oils, greases, pharmaceuticals, chemicals. OPD 340.

Need Titanium pigments desperately in order to carry on business. Any reasonable bonus paid or will exchange for other pigments or chemicals plus consideration. All transactions held in strictest confidence. Samuel Smidt Chemical Co., 410 Frelinghuysen Ave., Newark, N. J.

PLANTS WANTED

Dyestuffs plant, small, with kettles, filter press, etc., unrestricted area near New York. Wanted to rent or purchase. Will consider subcontracting. OPD 335.

POSITIONS VACANT

Wanted: Sales service men for coating compounds with diversified experience in the paint, varnish and lacquer industry for sales service work handling complete line of synthetic resins including alkyds, pure and modified phenolics, ureas, maleics and ester gums. Please give full details of industrial experience, education and references. Direct your inquiry to Personnel Manager, Plaskon Division, Libbey-Owens-Ford Glass Company, 2112-24 Sylvan Avenue, Toledo 6, Ohio.

Plant Chemist — well-known manufacturers of aromatic chemicals, require a thoroughly experienced chemist to run their plant. They need a man of responsibility and executive ability. Scientific background, knowledge of production and well-developed processes are essential. We advised our present staff of this and your reply should be made in detail and confidence. OPD 323.

Sales manager—Unusual opportunity with reputable manufacturer of aromatic chemicals, essential oils and compounds. Salary and commissions. Must be familiar with trade and command following. Give complete details. Confidence assured. Our sales force know of this ad. OPD 322.

Chemical Engineer or pharmacist for pharmaceutical compounding on ointments, tablets, troches, suppositories. Give experience, education, age and salary expected. OPD 338.

POSITIONS VACANT

Manufacturer offers share profit basis, to experienced sales representative with clientele in perfume bases for soap, cosmetics, etc., aromatics and flavors. Replies confidential. OPD 345.

POSITIONS WANTED

Biological chemist—available for pharmaceutical development or control testing—medical, microbiological, chemical. New York area. OPD 312.

Production expert with background of successful output and profitable innovations in manufacture of waxes soaps, polishes interested in starting new business or securing responsible position. A-1 references. Can invest $5,000 and obtain long-term credits up to $10,000. Inquiries invited from reliable established firms or investors with necessary capital to start own business. OPD 318.

Chemical and pharmaceutical man thoroughly experienced import, export, available February 1. Highest type references. OPD 326.

Tablet Maker—Granulating, compressing, coating, formulating. All types pharmaceutical and effervescent type tablets. 25 years working experience with some of the leading tablet houses. Capable of taking full charge of department. OPD 328.

Paint chemist B.S. Experienced, control, development. Excellent knowledge of efficient production. Presently employed. Age 26. Within 50 miles of N. Y. C. OPD 329.

Chemist, B.A., 27, married, 1½ years experience organic and inorganic pigment control and raw material testing. Interested in technical sales or production position. New York City area preferred. OPD 331.

Pharmaceutical chemist experienced in production, purchasing and personnel management. Ability to create and develop new items, conversant with label requirements and package sales appeal. Can assist in sales promotional work. 15 years executive experience with mid-Western drug and cosmetic concern. Seeks affiliation with medium size pharmaceutical house. Age 46. Best references. OPD 332.

Production chemist—12 years' diversified experience manufacturing fine chemicals. Knowledge equipment, control, records. Capable to take charge of small plant or unit operation. Available February 15. OPD 334.

Chemical engineer—Diversified 15 years experience in cold molding, plastics, industrial and household products, wax finishes, maintenance chemicals, lacquers. Functioned in past as plant and production manager, chemical engineer, designer, formulator and chemist. Intimate knowledge of equipment and processing. Excellent executive and manager of labor. Seek position where quality and real results will be appreciated. OPD 344.

Chemical trader, college graduate, chemist, 25 years experience industrial, fine chemicals, drugs, essential oils, paint and varnish materials, expert in production of paints and industrial coatings, available. Also for export, import, sales representation. OPD 346.

FOR SALE

Still: 100 gal., Copper, steam jack.
Tube Filler: Colton No. 2, worm type.
Bottle Fillers: 12 and 3-spout vacuum.
Centrifugal: 30" Rochester, suspended.
Mixer: 5,000 lb. Day, dry powder, with sifter and 20 hp. motor.
Filters: Oliver 8 x 10', 8 x 12', 6 x 4'.
Mixers: Jack ribbon type, 80, 160 gal.
Vacuum Pans: Kilby 11' cast iron.
Kettles: 60 and 100 gal. stain. steel.
Fillers: Siphon type bottle and can.
Pony Mixers: Day and Porter, 40 gal.
Labeler: World rotary automatic.
Filters: Alsop stain. steel, 2,400 GPH.
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Bids Wanted

Activated carbon, 8,050 pounds, Quartermaster, U. S. Military Academy (West Point, N. Y.) invitation 77, January 20.

Alkyd resin, 1,760,000 pounds, Bureau of Supplies and Accounts, Navy Department (Washington 25, D. C.) invitation 5052, January 22.

Calcium chloride, flake, 15,000 pounds, Army Chemical Center, Md., invitation 233, January 22.

Carbon dioxide, liquid, 24,000 pounds, U. S. Air Force (Eglin Field, Fla.) invitation 33, February 4; 10,000 pounds, as required from February 1, through June 30, 1948, Army Ordnance Department (Aberdeen Proving Ground, Md.) invitation 56, January 22.

Caustic soda, 6,000 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8865, January 20; lye, 6,000 12-ounce cans, Post Office Department (Washington 25, D. C.) invitation 1732, January 16.

Dichlorodifluoromethane, liquid, 14,500 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8865, January 20.

Diesel fuel oil, City of Cleveland, Transit System, resolution No. 1746-47, January 16.

Dry cleaning solvent, 8,000 gallons, U. S. Air Force (Brookley Field, Mobile, Ala.) invitation 5, January 15.

Ethyl alcohol, 15,000 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 95, January 29.

Motor fuel, 5,000 gallons, Department of Justice, Federal Reformatory (Chillicothe, Ohio) invitation 5-2918, January 15; 24,000 gallons, Army Ordnance Department (Milan, Tenn.) invitation 32, January 15.

Motor oil, City of Cleveland, Department of Public Service, ordinance No. 2245-47, January 16.

Paint, enamel, 1,506 gallons, U. S. Air Force (Wright Field, Dayton, Ohio) invitation 626, January 29; 20,000 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 92, January 29.

Paint remover, 30,000 gallons, U. S. Air Force (Wright Field, Dayton, Ohio) invitation 651, January 21.

Photographic developer, 10,000 gallons, Army Map Service (Washington 16, D. C.) invitation 25, January 16.

Plastic coating, strippable, 26,220 gallons, Bureau of Supplies and Accounts, Navy Department (Washington 25, D. C.) invitation 5140, January 23.

Polychlornaphthalene, 54,000 pounds, Army Ordnance Department (Dover, N. J.) invitation 75, January 30.

Rubber cement, 84,000 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 103, February 2.

Rust arresting compound, 1,250 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 99, January 30; 500 gallons, invitation 100, January 30.

Soap, powder, 30,000 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8857, January 19.

Soda ash, 6,000 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8865, January 20; 60 tons, Quartermaster, U. S. Military Academy (West Point, N. Y.) invitation 77, January 20.

Sodium metaborate, Army Signal Corps (Philadelphia 45, Pa.) invitation 801, January 19.

Thallous carbonate, 5,000 gr, and **thallous malonate,** 5,000 gr, Geological Survey, Department of the Interior (Washington, D. C.) invitation 154, January 15.

Trisodium phosphate, 20,000 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8857, January 19.

Wetting agent, 500 gallons, Army Ordnance Department (Aberdeen Proving Ground, Md.) invitation 57, January 15.

Attorney General Scrutinizes

—Continued from page 3

advisory committees approved by the appropriate governmental officer or agency as representative of the various segments of the industry involved.

Prior to submitting any such proposed agreement or plan to the Attorney General the appropriate governmental officer shall give industry, labor and the public generally an opportunity to present their views. In submitting the plan to the Attorney General for approval, it shall be accompanied by the favorable recommendation of the head of the department and by a statement of the circumstances which require the proposed agreement or plan; the means by which the agreement or plan will be carried out; the effect of the agreement or plan on persons and industries affected, including where appropriate, the proposed degree of curtailment in amount and prospective use of any material, commodity, or product by any processor or user thereof, and the formulae for such curtailment; the criteria used in the establishment of such formulae, and the factual evidence on which the recommendation for approval is made, showing which information, if any, is subject to restrictions for reasons of military security.

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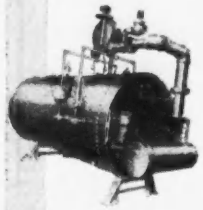
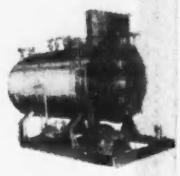
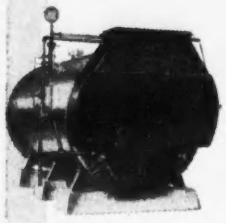
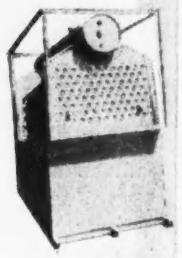

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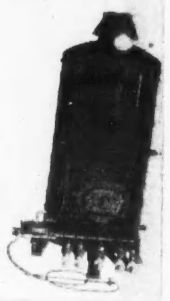

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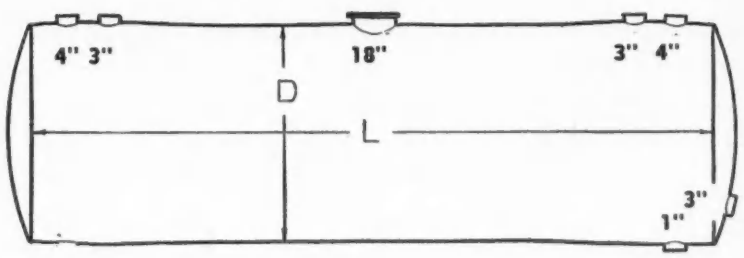

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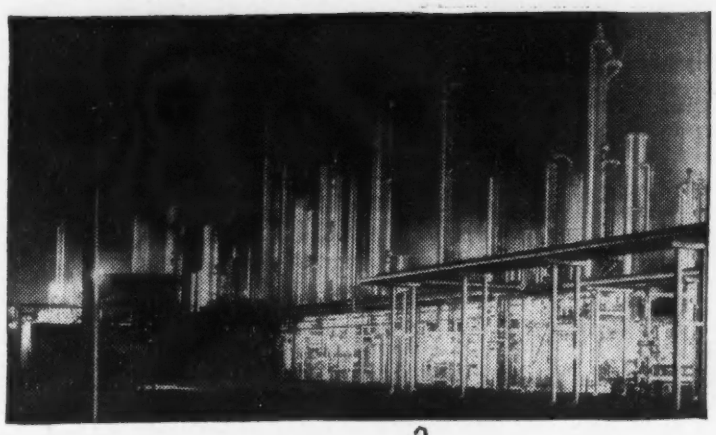

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